

Checklist of the grasses of India

Elizabeth A. Kellogg¹, J. Richard Abbott^{2,8}, Kamaljit S. Bawa³, Kanchi N. Gandhi⁴,
B. R. Kailash⁵, K.N. Ganeshaiah⁶, Uttam Babu Shrestha⁷, Peter Raven²

1 Donald Danforth Plant Science Center, 975 North Warson Rd., St. Louis, MO 63132, USA **2** Missouri Botanical Garden, 4344 Shaw Blvd., St. Louis, MO 63110, USA **3** University of Massachusetts Boston, College of Science and Mathematics, Boston, MA 02125, USA **4** Harvard University Herbaria, 22 Divinity Ave., Cambridge, MA 02138, USA **5** Ashoka Trust for Research in Ecology and the Environment (ATREE), Royal Enclave, Srirampura, Jakkur post, Bangalore-560094, India **6** University of Agricultural Sciences, Bangalore, India **7** Institute for Life Sciences and the Environment, University of Southern Queensland, Australia **8** School of Mathematical and Natural Sciences, The University of Arkansas at Monticello, Monticello, AR 71655, USA

Corresponding author: Elizabeth A. Kellogg (ekellogg@danforthcenter.org)

Academic editor: Maria Vorontsova | Received 20 July 2019 | Accepted 22 January 2020 | Published 18 October 2020

Citation: Kellogg EA, Abbott JR, Bawa KS, Gandhi KN, Kailash BR, Ganeshaiah KN, Shrestha UB, Raven P (2020) Checklist of the grasses of India. *PhytoKeys* 163: 1–560. <https://doi.org/10.3897/phytokeys.163.38393>

Abstract

A checklist of the grasses of India is presented, as compiled from survey of all available literature. Of the twelve subfamilies of grasses, ten are represented in India. Most subfamilies have been examined by taxonomic experts for up-to-date nomenclature. The list includes 1506 species plus infraspecific taxa and presents information on types, synonyms, distribution within India, and habit. Twelve new combinations are made, viz. *Arctopoa tibetica* (Munro ex Stapf) Prob. var. *aristulata* (Stapf) E.A. Kellogg, **comb. nov.**; *Chimonocalamus nagalandianus* (H.B. Naithani) L.G. Clark, **comb. nov.**; *Chionachne digitata* (L.f.) E.A. Kellogg, **comb. nov.**; *Chionachne wallichiana* (Nees) E.A. Kellogg, **comb. nov.**; *Dinebra polystachyos* (R. Br.) E.A. Kellogg, **comb. nov.**; *Moorochloa eruciformis* (Sm.) Veldkamp var. *divaricata* (Basappa & Muniv.) E.A. Kellogg, **comb. nov.**; *Phyllostachys nigra* (Lodd. ex Lindl.) Munro var. *puberula* (Miq.) Kailash, **comb. & stat. nov.**; *Tzveleviochloa schmidii* (Hook. f.) E.A. Kellogg, **comb. nov.**; *Urochloa lata* (Schumach.) C.E. Hubb. var. *pubescens* (C.E. Hubb.) E.A. Kellogg, **comb. nov.**; *Urochloa ramosa* (L.) T.Q. Nguyen var. *pubescens* (Basappa & Muniy.) E.A. Kellogg, **comb. nov.**; *Urochloa semiundulata* (Hochst. ex A. Rich.) Ashalatha & V.J. Nair var. *intermedia* (Basappa & Muniy.) E.A. Kellogg, **comb. nov.**

Keywords

Poaceae, taxonomy, biodiversity, biogeography, south Asia

Table of contents

Introduction.....	3
Background and methods.....	4
Checklist	5
Poaceae Barnh., 1895, nom. cons.....	5
Subfamily Pharoideae L. G. Clark & Judz., 1996.....	6
Subfamily Bambusoideae Luerss., 1893.....	7
Tribe Arundinarieae Asch. & Graebn., 1902.....	7
Tribe Bambuseae Kunth ex Dumort., 1829.....	22
Subfamily Oryzoideae Kunth x Beilschm. (1833).....	54
Tribe Ehrharteae Nevski, 1937.....	54
Tribe Oryzeae Dumort. (1824)	57
Tribe Streptogyneae C.E. Hubb. ex C.E. Calderón & Soderstr. (1980)	65
Subfamily Pooideae Benth., 1861.....	65
Tribe Nardeae W. D. J. Koch, 1837	66
Tribe Phaenospermateae Renvoize & Clayton, 1985.....	66
Tribe Duthieae Röser & Jul. Schneid., Syst. Biodivers. 9(1): 41. 2011.....	67
Tribe Meliceae Link ex Endl., 1830.....	68
Tribe Stipeae Dumort., 1824	71
Tribe Brachypodieae Harz, 1880.....	83
Tribe Bromeae Dumort., 1824.....	85
Tribe Triticeae Dumort., 1824	91
Tribe Poeae R. Br., 1814	111
Subfamily Aristidoideae Caro, 1982.....	196
Subfamily Panicoideae A. Braun, 1864.....	202
Incertae sedis:.....	203
Tribe Centotheceae Ridl., 1907.....	203
Tribe Chasmanthieae W.V. Br. & B.N. Smith ex Sánchez-Ken & L.G. Clark, 2010	206
Tribe Paspaleae J. Presl, 1830	207
Tribe Paniceae R. Br., 1814.....	217
Tribe Jansenelleae Voronts., 2020.....	298
Tribe Andropogoneae Dumort., 1824.....	299
Subfamily Danthonioideae N.P. Barker & H.P. Linder, 2001	453
Subfamily Chloridoideae Kunth ex Beilschm., 1833	456
Incertae sedis.....	456
Tribe Centropodieae P.M. Peterson, N.P. Barker & H.P. Linder, 2011	458
Tribe Triraphideae P.M. Peterson, 2010.....	459
Tribe Eragrostideae Stapf, 1898.....	460
Tribe Zoysieae Benth., 1881	479
Tribe Cynodonteae Dumort., 1824.....	488
Subfamily Micrairoideae Pilg., 1956	529

Subfamily Arundinoideae Kunth ex Beilschm., 1833	543
Acknowledgements.....	546
References	547
Index to Genera	557

Introduction

The following is a checklist of the grasses of India, produced as part of the Plants of India project. The grass family has been the subject of two major new classifications, Kellogg (2015b) and Soreng et al. (2015, 2017), based on phylogenetic data. Even before these appeared, molecular phylogenies had resolved circumscription of the subfamilies and there has been general agreement for at least the last 15 years on the monophyly of the major subfamilies. Nearly all known genera have been firmly assigned to subfamily and a large majority to tribe. Division into subtribes remains an item of discussion in some groups.

The two current classifications are quite similar, which is not surprising since they are based on the same underlying data and phylogenies. Many of the differences reflect simply different preferences for classification. Kellogg (2015b) generally avoids monogeneric tribes or subtribes on the grounds that they convey no phylogenetic information and are unnecessary. This means that, while all genera are assigned to subfamily, the smaller subfamilies (e.g. Pharoideae) are not divided into tribes. In contrast, Soreng et al. (2015, 2017) prefer consistency in the use of ranks throughout the classification, meaning that all subfamilies include tribes, even if or when the tribes are unnecessary from the point of view of identification or phylogeny. The same arguments apply to subtribes. The Soreng et al. (2015, 2017) classification is thus more split than Kellogg (2015b). In addition, there are a few differences in generic circumscription. Because Kellogg (2015b) appeared in book form, it really represents the state of data a couple of years earlier, whereas Soreng et al. (2017) includes more recent information.

All grass subfamilies are represented in India except for Anomochlooideae, which is found only in the New World, and Puelioideae, which is restricted to Africa. We follow Kellogg (2015b) in using italics in the taxonomic descriptions to indicate putative synapomorphies (shared derived characters) indicating monophyly of the described group. Numbers of tribes and genera are listed in Table 1. This list includes 266 genera, representing about a third of the 711 (Kellogg 2015b) to 768 (Soreng et al. 2017) genera currently recognized in the family.

Many of the tribes and subfamilies have been checked by taxonomic experts and those experts are acknowledged in the appropriate section. Because of in some cases considerable time elapsed between the review of the list and the current publication, recent taxonomic changes may have been missed. Most nomenclatural information is consistent with that in the Tropicos database (<http://www.tropicos.org>), but the synonymy is not fully consistent with that in GrassBase (Clayton et al. 2006 onwards)

The compilation presented here is meant to be a starting point for future work, which requires detailed mapping and verification with herbarium material. Distribu-

Table 1. The ten subfamilies of grasses represented in the flora of India, showing numbers of tribes, genera, and species recorded in India for each. Tribes are not recognized here for Pharoideae and Aristidoideae because they are redundant, nor for Micrairoideae and Arundinoideae because the number of genera is too small to require tribal designations. Two hundred sixty-six genera have been recorded for the country, representing about 1/3 of the total in the family.

Subfamily	Tribes	Genera	Species + subspecies + varieties
Pharoideae	(1, redundant)	1	1
Bambusoideae	2 (of 3)	32	148
Oryzoideae	3 (of 3)	6	29
Pooideae	8 (of 11)	70	383
Aristidoideae	(1, redundant)	2	15
Panicoideae	6 (of 8)	98	668
Danthonioideae	(1, redundant)	3	5
Chloridoideae	5 (of 5)	43	201
Micrairoideae	(4, not recognized here)	7	50
Arundinoideae	(2, not recognized here)	4	6

tions within India are compiled from a broad range of sources only some of which included specimen citations to support their claims of geographical distribution. All distribution records should thus be considered provisional. Of particular note is the work of Naithani (1990), which added many new distribution records but largely without documentation. When Naithani (1990) is the only source for a record, this is noted in the text. We have avoided use of the term “endemic” since endemism is hard to verify in the absence of extensive herbarium material. Synonyms are ones that have been used in the Indian literature in the past. Some of these are New World names and are included here as a way to be able to follow up older Indian literature.

India is the most poorly studied of all subcontinents for grasses. The country has been largely inaccessible to foreign botanists for the last several decades and the revolution in molecular systematics has largely missed Indian grasses because of the near-impossibility of obtaining material. We present this list in hopes of showing the richness of the grass flora and the discoveries to be made.

Background and methods

The objective of the overall project is to produce an authenticated and authoritative digital list of vascular plants of India, both native and naturalized. This list is to include all taxa of seed plants with their accepted names, synonyms, author names, publication details, habit, and distribution ranges. It has been a major task to coalesce the available taxonomic information into a unified list of names representing India’s plant diversity. Doing so required a significant amount of effort and time to compile the information in source materials and produce a functional list. Despite its tentative nature, this list contains the best information available for many groups, and is likely to find diverse uses and applications.

The current checklist has resulted from collaboration between the Ashoka Trust for Research in Ecology and the Environment (ATREE), the Missouri Botanical Garden (MBG), and Harvard University Herbaria (HUH). In mid-1990s, prior to the present collaboration, Dr. K.N. Ganeshaiah of the University of Agricultural Sciences, Bangalore and Dr. Sebastian Padayatty of Shaman Scientific, Bangalore, along with Kanchi N. Gandhi of the HUH, were independently compiling data on plant names for a checklist of vascular plants of India. Dr. Peter H. Raven (MBG) and Dr. Kamal Bawa (ATREE) organized a meeting of relevant staff from the two teams at the Missouri Botanical Garden in 2002. At this meeting, it was agreed that a team would compile the available data at ATREE, the nomenclature would be verified at the Harvard University Herbaria, and taxonomic revision would be carried out by specialists under the guidance of Dr. Raven. The Sehgal Family Foundation, a previous donor to both ATREE and MBG, provided the initial funds for preparing a comprehensive list of India's plants.

National and international botanical journals, floras, manuals, monographs, and revisionary works were reviewed, with the data compiled by a team of energetic staff members under the supervision of the late Dr. S. N. I. Yoganarasimhan (1944–2017). At the HUH, Gandhi received a copy of the data that had been compiled at ATREE and verified the nomenclature over a period almost 6 years (2007–2013). Initially, two assistants, Mr. Uttam B. Shrestha (a Ph.D. student of Dr. Bawa) and Mr. B. R. Kailash (ATREE staff) worked under the supervision of Gandhi; later Uttam's wife Sujata Shrestha also joined the crew for a few months.

Regardless of the status of a name (accepted or synonym), an effort was made to check each protologue to verify its validity, authorship, bibliography, and legitimacy. The investigation was helpful in correcting errors that had found their way into earlier botanical works. A number of recent monographs and journals were consulted to add new taxa reported for India and to revise taxonomy and ranges of taxa. In the course of this work, type information was added when feasible.

Checklist

Poaceae Barnh., 1895, nom. cons.

Type. *Poa* L.

Ancestrally rhizomatous perennials but diversified into caespitose or scarcely branched forms; annual habit derived multiple times. Culms herbaceous but woody culms derived more than once. Height varying from a few mm to several m. Leaf blades broad, pseudopetioles synapomorphic for the family but repeatedly lost. Ligule membranous or a fringe of hairs. Inflorescences branched or unbranched. Stamens ancestrally 6, but reduced to 3 in many species. Style branches and stigmas ancestrally 3, but reduced to 2 in many species. Pollen monoporate, *lacking scrobiculi in the exine*. Ovule 1. *Embryo lateral, highly differentiated with clear root and shoot meristems, each enclosed by a sheath, and with several well-developed leaves and a lateral haustorial organ (scutellum)*. Fruit indehiscent with a single seed, *the*

seed coat tightly appressed or fused to the inner wall of the pericarp. Leaf mesophyll with fusoid cells and with cells with invaginated cell walls, midrib complex; these characters lost during evolution of the family. Epidermis with multicellular microhairs, with alternating long and short cells, the short cells developing silica bodies. Photosynthetic pathway ancestrally C₃.

Poaceae is a monophyletic family as documented by decades of phylogenetic studies (e.g., (Campbell and Kellogg 1987; Clark et al. 1995; Grass Phylogeny Working Group 2001; Grass Phylogeny Working Group II 2012; Linder 1987)). Morphological characters that are unique to the family (synapomorphic) include the highly differentiated embryo, the unique fruit structure, and the unique leaf morphology. In all grasses except Anomochlooideae (i.e., in all Indian species), the branches terminate in units known as spikelets, with each spikelet subtended by two bracts (glumes) and bearing one or more flowers. Also in this slightly more restricted group the inner perianth is modified to form tiny hyaline structures known as lodicules that function in flower opening and then wither after anthesis.

Subfamily Pharoideae L. G. Clark & Judz., 1996

Plants herbaceous, rhizomatous. Leaf blades with a pseudopetiole, *resupinate, with lateral veins running obliquely from midvein to margins*. Inflorescence branched, *with hooked hairs on the branches and spikelets*. Spikelets unisexual, with staminate and pistillate spikelets borne in pairs. Lemma margins fused such that lemmas are tubular and often inflated. Lodicules lacking, or present only in staminate flowers. *Inner bundle sheath of veins with multiple layers of cells. Intercostal epidermis with files of long fibers alternating with normal files of intercostal long cells.*

Subfamily Pharoideae includes only about 12 species, which grow in shade in tropical forests. The subfamily is monophyletic, with obvious morphological and molecular synapomorphies. The spikelets are unisexual and paired, with a large pistillate spikelet associated with a much smaller staminate spikelet. The leaf anatomy is also distinctive in that the inner bundle sheath of the veins has multiple layers of cells (Judziewicz and Clark 2007). The intercostal epidermis has files of long fibers alternating with normal files of intercostal long cells (Soderstrom et al. 1987). It is unclear whether this subfamily actually occurs in India, although *Leptaspis urceolata* has been reported, as noted below.

***Leptaspis* R. Br., Prodr. Fl. Nov. Holland. 211. 1810**

Type. *Leptaspis banksii* R. Br.

1. *Leptaspis urceolata* (Roxb.) R. Br., Pl. Jav. Rar. (Bennett) 23. t. 6. 1838

Pharus urceolatus Roxb., Fl. Ind. (Roxburgh) 3: 611. 1832. Type: Malaysia: A native of Pulo Pinaug

Leptaspis manillensis Steud., Syn. Pl. Glumac. 1: 8. 1853. Type: Thailand: Manila; *Cuming Herb. no. 1739*

Leptaspis zeylanica Nees, Syn. Pl. Glumac. (Steudel) 1: 8. 1853. Type: Sri Lanka.

Distribution. Kerala [Sri Lanka].

Habit. Rhizomatous perennial.

Remarks. Record for India fide Naithani (1990).

Subfamily Bambusoideae Luer., 1893

Woody or herbaceous perennials. Leaves pseudopetiolate, the culm leaves generally morphologically distinct from those on the lateral branches. Ligule membranous, with or without a fringe of hairs. Inflorescences branched or unbranched, bearing conventional spikelets or pseudospikelets. Glumes 0 or 1 to several. Lodicules 3. Stamens 3 or 6. *First seedling leaf lacking a lamina.*

Bambusoideae includes both woody and herbaceous bamboos. The lack of a lamina on the first seedling leaf may be synapomorphic (Soderstrom and Ellis 1987). In addition, the leaf anatomy is distinctive. The leaf mesophyll is marked by fusoid cells, which appear large and seemingly empty in cross section; this cell type is actually sympleiomorphic in the family (Clark et al. 1995; Kellogg 2015b; Leandro et al. 2018). Adaxial and abaxial to the fusoid cells are mesophyll cells with invaginated cell walls, known as arm cells. In the bamboos, these are asymmetric, a characteristic that is synapomorphic for the subfamily. The last several years have seen considerable progress on phylogeny and classification of bamboos (Bamboo Phylogeny Group 2012; Kelchner and Bamboo Phylogeny Group 2013), but in general work on Old World species has proceeded more slowly than that in the New World. Of the three tribes, only two occur in India.

Much of the data presented here relies on the authoritative World Checklist of Bamboos and Rattans (Vorontsova et al. 2016).

Taxonomic Editor: Lynn G. Clark, Iowa State University

Tribe Arundinarieae Asch. & Graebn., 1902

Plants woody, with rhizomes leptomorph (running) and the plants forming more or less diffuse stands, or pachymorph (clumping), these taxa sometimes with elongated necks. Branches developing from the top to the bottom of the plant (basipetal). Foliage leaves with an outer ligule. Spikelets laterally compressed. Midrib with complex vasculature.

All members of this tribe are woody and temperate and are tetraploid ($2n = 48$) (Bamboo Phylogeny Group 2012; Kelchner and Bamboo Phylogeny Group 2013). Generic limits are not well defined in most cases and hybridization has been documented repeatedly (Triplett et al. 2010, 2014; Wong and Low 2011).

***Ampelocalamus* S.L. Chen, T.H. Wen & G.Y. Sheng, *Acta Phytotax. Sin.* 19: 332. 1981**

Type. *Ampelocalamus actinotrichus* (Merrill & Chun) S.L. Chen, T.H. Wen & G.Y. Sheng

2. *Ampelocalamus patellaris* (Gamble) Stapleton, *Edinburgh J. Bot.* 51(3): 321. 1994

Dendrocalamus patellaris Gamble, *Ann. Roy. Bot. Gard. (Calcutta)* 7: 86–87. t. 75. 1896. Type: Sikkim, Jungat, alt. 4000 ft.; November, 1881; *Gamble 10045* (K). LT designated by Stapleton in *Edinburgh J. Bot.* 51: 321. 1994.

Patellocalamus patellaris (Gamble) W.T. Lin, *J. S. China Agric. Univ.* 10(2): 46. 1989

Sinocalamus patellaris (Gamble) T.Q. Nguyen, *Bot. Zhur. (Moscow & Leningrad)* 74: 1662. 1989

Chimonobambusa jainiana C.R. Das & D.C. Pal, *J. Econ. Taxon. Bot.* 4(3): 1023. 1983. Type: India: West Bengal, Kalimpong; *CNH 12178* (CAL).

Drepanostachyum jainianum (C.R. Das & D.C. Pal) R.B. Majumdar, *Bull. Bot. Surv. India* 25(1–4): 235. 1985 (“1983”) (as “jainiana”)

Sinarundinaria jainiana (C.R. Das & D.C. Pal) H.B. Naithani, *Indian Forester* 116(12): 990. 1990

Distribution. Arunachal Pradesh, Assam, Jammu and Kashmir, Nagaland, Sikkim, Uttar Pradesh, Uttarakhand, West Bengal [Bhutan, China, Laos, Myanmar, Nepal].

Habit. Woody perennial.

***Chimonobambusa* Makino, *Bot. Mag. (Tokyo)* 28: 153. 1914**

Lectotype. *Chimonobambusa marmorea* (Mitford) Makino (*Bambusa marmorea* Mitford). LT designated by McClure in *Taxon* 6(7): 201–202. 1957.

3. *Chimonobambusa armata* (Gamble) J. R. Xue & T. P. Yi, *J. Bamboo Res.* 2(1): 38. 1983

Arundinaria armata Gamble *Ann. Roy. Bot. Gard. (Calcutta)* 7: 130, pl. 119. 1896. Type: Burma: “Hills of Upper Burma. Bernardmyo”; *Mr. J.W. Oliver 1894* (K).

Oreocalamus armatus (Gamble) T. H. Wen, *J. Bamboo Res.* 5(2): 22. 1986

Chimonocalamus armatus (Gamble) R.B. Majumdar in S. Karthikeyan et al., *Fl. Ind.* ser. 4, 1 (Monocotyledon): 275. 1989

Distribution. India, cultivated only [China, Myanmar].

Habit. Woody perennial.

4. *Chimonobambusa arunachalensis* T. P. Sharma & Borthakur, *Pleione* 2(1): 1. 2008

Type. India: Arunachal Pradesh, Ziro, Lower Subansiri district, 8 May 2006, *TP0140A*.

Distribution. Arunachal Pradesh.

Habit. Woody perennial.

5. *Chimonobambusa callosa* (Munro) Nakai, *J. Arnold Arbor.* 6(3): 151. 1925

Arundinaria callosa Munro, *Trans. Linn. Soc. London* 26(1): 30. 1868. Lectotype: India: Meghalaya, Myrung; July 6, 1850; *J.D. Hooker & Thompson 1504* (K). LT designated by C.S. Chao & Renvoize in *Kew Bull.* 44(2): 366. 1989.

Chimonocalamus callosus (Munro) J. R. Xue & T. P. Yi, *Acta Bot. Yunnan.* 1(2): 84. 1979

Sinobambusa callosa (Munro) T.H. Wen, *J. Bamboo Res.* 1(1): 35. 1982

Arundinaria phar E.G. Camus, *Bambusées*: 37. 1913

Distribution. Arunachal Pradesh, Assam, Manipur, Meghalaya, Mizoram, Nagaland [Bhutan].

Habit. Woody perennial.

6. *Chimonobambusa jainii* T. P. Sharma & Borthakur, *J. Econ. Taxon. Bot.* 32(4): 783–785, f. 1. 2008

Type. India: Arunachal Pradesh, Ziro, Lower Subansiri district, 6 May 2006, *TP0140*.

Distribution. Arunachal Pradesh.

Habit. Woody perennial.

7. *Chimonobambusa quadrangularis* (Franceschi) Makino, *Bot. Mag. (Tokyo)* 28: 153. 1914

Bambusa quadrangularis Franceschi, *Bull. Soc. Tosc.ortic.* 5: 401. 1880 Type unknown.

Arundinaria quadrangularis (Franceschi) Makino, *Bot. Mag. (Tokyo)* 9: 71. 1895

Phyllostachys quadrangularis (Franceschi) Rendle, *J. Linn. Soc., Bot.* 36: 443. 1904

Tetragonocalamus quadrangularis (Franceschi) Nakai, *J. Jap. Bot.* 9: 90. 1933

Distribution. Meghalaya, cultivated? [China, Japan].

Habit. Woody perennial.

***Chimonocalamus* J. R. Xue & T. P. Yi, Acta Bot. Yunnan. 1(2): 76. 1979**

Type. *Chimonocalamus delicatus* J. R. Xue & T. P. Yi.

8. *Chimonocalamus griffithianus* (Munro) J. R. Xue & T. P. Yi, Acta Bot. Yunnan. 1(2): 83–84. 1979

Arundinaria griffithiana Munro, Trans. Linn. Soc. London 26(1): 20. 1888. Syntypes: India: Assam, Khasia Mountain, Mofong; *Griffith Assam Dept. 39* (K). *J.D. Hooker s.n.* (K).

Chimonobambusa griffithiana (Munro) Nakai, J. Arnold Arbor. 6(3): 151. 1925

Sinarundinaria griffithiana (Munro) C.S. Chao & Renvoize, Kew Bull. 44(2): 353. 1989

Distribution. Arunachal Pradesh, Assam, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim, West Bengal [China, Myanmar].

Habit. Woody perennial.

9. *Chimonocalamus longiusculus* Hsueh & T. P. Yi, Acta Bot. Yunnan. 1(2): 80–81, pl. 6. 1979.

Type. China: Yunnan: Xichou, evergreen broad-leaved forests, 1600–1700 m, 31 May 1977; *S.W. Xian 6979*?

Distribution. Arunachal Pradesh.

Habit. Woody perennial.

10. *Chimonocalamus lushaiensis* Ohrnb., Bamboos World Introd. 3: 14. 1996.

Sinarundinaria longispiculata C.S. Chao & Renvoize, Kew Bull. 43: 411. 1988. Type: India: Assam, Sangao, Lushai Hills, 1300 m; Mar 1953; *Thakur Rup Chand 6889* (K) [Replaced synonym]

Chimonocalamus longispiculatus R. B. Majumdar. Fl. Ind. Enum. Monocot 276. 1989. Type: ?

Chimonocalamus longispiculatus (C.S. Chao & Renvoize) D.Z. Li, Acta Bot. Yunnan. 16: 41. 1994. Nom. illegit.

Sinarundinaria arunachalensis H.B. Naithani, Indian Forester 117(1): 78. 1991

Distribution. Arunachal Pradesh, Assam.

Habit. Woody perennial.

11. *Chimonocalamus nagalandianus* (H.B. Naithani) L.G. Clark, comb. nov.
 urn:lsid:ipni.org:names:77212051-1

Sinarundinaria nagalandiana H.B. Naithani, Indian Forester 120(12): 1120. 1994.
 Type: India: Nagaland, Niriyo Peak, alt. 3840 ft., Wokha; November, 1986; *H.B. Naithani* 1477 (DD).

Distribution. Nagaland.

Habit. Woody perennial.

Remarks. Seethalakshmi and Kumar (1998) indicate that this species is allied to *Chimonocalamus griffithianus* (as *Sinarundinaria griffithianus*) so a new combination in *Chimonocalamus* is here proposed. This species has the root spines characteristic of this genus, but is unknown in flower.

***Drepanostachyum* Keng f., Journal of Bamboo Research 2(1): 15. 1983**

Type. *Drepanostachyum falcatum* (Nees) Keng f.

12. *Drepanostachyum falcatum* (Nees) Keng f., J. Bamboo Res. 2(1): 16. 1983

Arundinaria falcata Nees, Linnaea 9: 478. 1835

Sinarundinaria falcata (Nees) C.S. Chao & Renvoize, Kew Bull. 44(2): 357. 1989

Arundinaria gracilis (hort. ex Rivière & C. Rivière) Blanch., Rev. Hist. Nat. [Paris].
 58: 490. 1886

Bambusa gracilis hort. ex Rivière & C. Rivière, Bull. Soc. Natl. Acclim. France Ser. 3,
 5(25): 682. 1878

Type. “In Nepalia legit, Royle.” Lectotype: Northwest India; *Royle s.n.* (K). LT designated by C.S. Chao & Renvoize in Kew Bull. 44(2): 358. 1989.

Distribution. Himachal Pradesh, Uttar Pradesh, Uttarakhand [Nepal, Pakistan].

Habit. Woody perennial.

Remarks. *Arundinaria gracilis* (hort. ex Rivière & C. Rivière) Blanch. is included in Seethalakshmi and Kumar (1998) but is the subject of taxonomic confusion. The name is based on *Bambusa gracilis* hort. ex Rivière & C. Rivière, but this is a synonym of *Drepanostachyum falcatum* (Nees) Keng f., according to Vorontsova et al. (2016). As noted by taxonomic editor Clark, *Arundinaria gracilis* Lafosse is listed as a nomen nudum in TROPICOS, apparently because the protologue fails to cite a type. This entity requires further investigation.

13. *Drepanostachyum intermedium* (Munro) Keng f., J. Bamboo Res. 2(1): 18. 1983

Arundinaria intermedia Munro, Trans. Linn. Soc. London 26(1): 28. 1868. Type: India: Sikkim, alt. 7000–8000 ft.; 1848; *J.D. Hooker s.n.* (K)

Chimonobambusa intermedia (Munro) Nakai, J. Arnold Arbor. 6: 151. 1925

Sinarundinaria intermedia (Munro) C.S. Chao & Renvoize, Kew Bull. 44(2): 357. 1989

Distribution. Arunachal Pradesh, Mizoram, Sikkim, West Bengal [Bhutan, Nepal].

Habit. Woody perennial.

14. *Drepanostachyum khasianum* (Munro) Keng f., Journal of Bamboo Research 2(1): 18. 1983

Arundinaria khasiana Munro, Trans. Linn. Soc. London 26(1): 28. 1868. Type: India: Khasia, Shillong, 5800 ft.; *Griffith 1058* (K)

Chimonobambusa khasiana (Munro) Nakai, J. Arnold Arbor. 6: 151. 1925

Distribution. Assam, Manipur, Meghalaya, Sikkim, Uttarakhand, West Bengal [Bhutan, Nepal].

Habit. Woody perennial.

15. *Drepanostachyum kurzii* (Gamble) Pandey ex D.N. Tewari, Monogr. Bamboo 90. 1993

Arundinaria kurzii Gamble, Ann. Roy. Bot. Gard. (Calcutta) 7: 25. t. 25. 1896. Type: Burma: Southern coast; 1878; *Kurz s.n.* (K).

Sinarundinaria kurzii (Gamble) M. Kumar, Bamboos of India, compendium 279. 1998

Distribution. Manipur, Meghalaya, Nagaland, West Bengal.

Habit. Woody perennial.

16. *Drepanostachyum polystachyum* (Kurz ex Gamble) R.B. Majumdar in S. Karthikeyan et al., Fl. Ind. ser. 4, 1 (Monocotyledon): 277. 1989

Arundinaria polystachya Kurz ex Gamble, Ann. Roy. Bot. Gard. (Calcutta) 7: 7. t. 5. 1896. Lectotype: India: Sikkim, alt. 4000–5000 ft.; 1868; *Kurz & Anderson s.n.* (K). LT designated by C.S. Chao & Renvoize in Kew Bull 44(2): 359. 1989

Chimonobambusa polystachya (Kurz ex Gamble) Nakai, J. Arnold Arbor. 6: 151. 1925

Sinarundinaria polystachya (Kurz ex Gamble) C.S. Chao & Renvoize, Kew Bull. 44(2): 359. 1989

Distribution. Manipur, Meghalaya, Sikkim, Tripura, West Bengal.

Habit. Woody perennial.

17. *Drepanostachyum suberectum* (Munro) R.B. Majumdar, Bull. Bot. Surv. India 25(1–4): 236. 1985 (“1983”)

Arundinaria suberecta Munro, Trans. Linn. Soc. London 26(1): 32. 1868. Lectotype: India: Meghalaya, Mamlo; October 27, 1835; *Griffith* 558 (K). LT designated by Stapleton, Edinburgh J. Bot. 51: 308. 1994.

Sinarundinaria suberecta (Munro) M. Kumar, Bamboos of India, compendium 286. 1998

Distribution. Arunachal Pradesh, Manipur, Meghalaya, Sikkim, West Bengal.

Habit. Woody perennial.

***Himalayacalamus* Keng f., J. Bamboo Res. 2(1): 23. 1983**

Type. *Himalayacalamus falconeri* (Hook. f. ex Munro) Keng f. (*Thamnocalamus falconeri* Hook. f. ex Munro)

18. *Himalayacalamus falconeri* (Hook. f. ex Munro) Keng f., J. Bamboo Res. 2(1): 24. 1983

Thamnocalamus falconeri Hook. f. ex Munro, Trans. Linn. Soc. London 26(1): 34. 1868. Type: Nepal: Bagmati Zone, Kathmandu, Sheopore [Shivapuri], alt. 8000 ft.; 1821; Numer. List [Wallich] no. 5040 (K).

Distribution. Sikkim, Uttar Pradesh, West Bengal [Bhutan, China, Nepal].

Habit. Woody perennial.

19. *Himalayacalamus hookerianus* (Munro) Stapleton, Bamboo Soc. Newsl. 17: 21. 1993

Arundinaria hookeriana Munro, Trans. Linn. Soc. London 26(1): 29. 1868. Lectotype: India: Sikkim [Neongong, 6800 ft.,] “Praong, 4000–6000 ft.”; December, 1848; *J.D. Hooker* s.n. (K). LT designated by Stapleton in Edinburgh J. Bot. 51: 318. 1995.

Sinarundinaria hookeriana (Munro) C.S. Chao & Renvoize, Kew Bull. 44(2): 358. 1989

Drepanostachyum hookerianum (Munro) Keng f., J. Bamboo Res. 2(1): 17. 1983

Chimonobambusa hookeriana (Munro) Nakai, J. Arnold Arbor. 6(3): 151. 1925

Distribution. Arunachal Pradesh, Manipur, Meghalaya, Sikkim, West Bengal [Bhutan]. Native to Bhutan and north-eastern India, but commonly cultivated in West Bengal and also in Nepal.

Habit. Woody perennial.

***Kuruna* Attigala, Kathriar. & L.G. Clark, *Phytotaxa* 174: 199–200. 2014**

Type. *Kuruna debilis* (Thwaites) Attigala, Kathriar. & L.G. Clark.

20. *Kuruna densifolia* (Munro) Attigala, Kathriar. & L.G. Clark, *Phytotaxa* 174: 200. 2014

Arundinaria densifolia Munro, Trans. Linn. Soc. London 26(1): 32. 1868. Lectotype: Sri Lanka; *Watson* 25 (K). LT designated by Soderstrom & Ellis in *Smithsonian Contr. Bot.* 72: 12. 1988

Chimonobambusa densifolia (Munro) Nakai, J. Arnold Arbor. 6: 151. 1925

Sinarundinaria densifolia (Munro) C.S. Chao & Renvoize, Kew Bull. 44(2): 354. 1989

Yushania densifolia (Munro) R.B. Majumdar in S. Karthikeyan et al., *Fl. Ind. ser. 4*, 1 (Monocotyledon): 282. 1989

Distribution. Kerala [Sri Lanka].

Habit. Woody perennial.

21. *Kuruna floribunda* (Thwaites) Attigala, Kathriar. & L.G. Clark, *Phytotaxa* 174: 200. 2014

Arundinaria floribunda Thwaites, Enum. Pl. Zeyl. (Thwaites) 375. 1864. Type: Sri Lanka: Maturatte District, alt. 5000 ft.; 1863; *Thwaites Ceylon Plant* 2624 (PDA).

Indocalamus floribundus (Thwaites) Nakai, J. Arnold Arbor. 6: 148. 1925

Sinarundinaria floribunda (Thwaites) C.S. Chao & Renvoize, Kew Bull. 44(2): 356. 1989

Yushania floribunda (Thwaites) Demoly, *Bambou* 48: 12. 2006

Distribution. Kerala [Sri Lanka].

Habit. Woody perennial.

22. *Kuruna walkeriana* (Munro) Attigala, Kathriar. & L.G. Clark, Phytotaxa 174: 200. 2014

Arundinaria walkeriana Munro, Trans. Linn. Soc. London 26(1): 21. 1868. Lectotype: Sri Lanka; *Mrs. Walker* 96 (K). LT designated by Soderstrom & Ellis in Smithsonian Contr. Bot. 72: 27. 1988

Indocalamus walkerianus (Munro) Nakai, J. Arnold Arbor. 6: 148. 1925

Sinarundinaria walkeriana (Munro) C.S. Chao & Renvoize, Kew Bull. 44(2): 354. 1989

Yushania walkeriana (Munro) R.B. Majumdar in S. Karthikeyan et al., Fl. Ind. ser. 4, 1 (Monocotyledon): 283. 1989

Distribution. Kerala, Tamil Nadu [Sri Lanka].

Habit. Woody perennial.

23. *Kuruna wightiana* (Nees) Attigala, Kathriar. & L.G. Clark, Syst. Bot. 41(1): 191, f. 13. 2016.

Arundinaria wightiana Nees, Linnaea 9: 482. 1835. Type: "Peninsula Indiae orientalis; Herb Wight." India: Nilgiris District; *Wight* 1797 (K, Isotype).

Indocalamus wightianus (Nees) Nakai, J. Arnold Arbor. 6: 149. 1925

Sinarundinaria wightiana (Nees) C.S. Chao & Renvoize, Kew Bull. 44(2): 356. 1989

Yushania wightiana (Nees) R.B. Majumdar in S. Karthikeyan et al., Fl. Ind. ser. 4, 1 (Monocotyledon): 283. 1989

Indocalamus wightianus (Nees) Nakai var. *hispida* (Steud.) Nakai, J. Arnold Arbor. 6: 149. 1925

Arundinaria wightiana Nees var. *hispida* (Steud.) Gamble, Ann. Roy. Bot. Gard. (Calcutta) 7: 5. 1896

Yushania wightiana (Nees) R.B. Majumdar var. *hispida* (Steud.) R.B. Majumdar & S. Karthikeyan in S. Karthikeyan et al., Fl. Ind. ser. 4, 1 (Monocotyledon): 283. 1989

Arundinaria hispida Steud., Syn. Pl. Glumac. 1: 335. 1854. Type: India: "In sylvis prope Sispara Nilagiri"; *Hohenacker* 1282 (K).

Distribution. Kerala, Tamil Nadu.

Habit. Woody perennial.

***Phyllostachys* Siebold & Zucc., Abh. Math.-Phys. Cl. Königl. Bayer. Akad. Wiss. 3: 745. 1843, nom. cons.**

Type. *Phyllostachys bambusoides* Siebold & Zucc.

24. *Phyllostachys aurea* Carrière ex Rivière & C. Rivière, Bull. Soc. Natl. Acclim. France ser. 3, 5: 716 f. 36, 37. 1878

Type. Tunis, Cultivated in “Jardim du Hamma”; *Anonymous s.n.* (P).

Distribution. Uttarakhand [China]. Cultivated; native to China and Japan, widely cultivated.

Habit. Woody perennial.

25. *Phyllostachys bambusoides* Siebold & Zucc., Abh. Math.-Phys. Cl. Königl. Bayer. Akad. Wiss. 3(3): 746. pl. 5. f. 3. 1843

Type. Japan; *P.F. von Siebold s.n.* (L).

Distribution. Assam, Himachal Pradesh [China]. Cultivated; native to China and Japan, widely cultivated.

Habit. Woody perennial.

26. *Phyllostachys mannii* Gamble, Ann. Roy. Bot. Gard. (Calcutta) 7: 28. t. 28. 1896

Phyllostachys assamica Gamble ex Brandis, Indian Trees 667. 1906. Type: India: Mishmi Hills, Namdang, Lakhimpur District, Sadiya; *Griffith s.n.*

Phyllostachys bambusoides sensu Gamble, Fl. Brit. India (J.D. Hooker). 7(22): 386. 1896, non Siebold & Zucc., 1843

Type. India: Shillong, Kashia Hills and said to have come from the Naga Hills; 1889; *G. Mann s.n.*

Distribution. Arunachal Pradesh, Assam, Meghalaya, Nagaland [China, Myanmar]. Native, but also cultivated.

Habit. Woody perennial.

27. *Phyllostachys nigra* (Lodd. ex Lindl.) Munro, Trans. Linn. Soc. London 26(1): 38, 123. 1868

Bambusa nigra Lodd. ex Lindl., Penny Cyclop. 3: 357. 1835

Phyllostachys puberula var. *nigra* (Lodd. ex Lindl.) Makino, Bot. Mag. (Tokyo) 14: 64. 1900

Phyllostachys puberula var. *nigra* (Lodd. ex Lindl.) J. Houz., Act. Congr. Int. Bot. (Brux.) 2: 223. 1912, isonym.

Sinoarundinaria nigra (Lodd. ex Lindl.) Ohwi ex Mayeb., Fl. Austro-Higo. 86. 1931

Distribution. India. Cultivated only; native to S Hunan, China.

Habit. Woody perennial.

28. *Phyllostachys nigra* (Lodd. ex Lindl.) Munro var. *puberula* (Miq.) Kailash, comb. & stat. nov.

urn:lsid:ipni.org:names:77212052-1

Phyllostachys puberula var. *puberula* in Makino, Bot. Mag. (Tokyo) 14: 64. 1900

Phyllostachys henonis Mitford, Garden (London 1871–1927) 47: 3. 1895

Bambusa puberula Miq. Ann. Mus. Bot. Lugduno-Batavi 2: 285. 1866. Type: Japan: Osaka; Siebold, Buerger & Textor s.n.

Phyllostachys puberula (Miq.) Munro, Gard. Chron., n. s. 6: 773, 774. 1876

Phyllostachys nigra (Lodd. ex Lindl.) Munro var. *henonis* (Mitford) Stapf ex Rendle, J. Linn. Soc., Bot. 36(254): 442–443. 1904

Distribution. India. Cultivated; native to S Hunan, China.

Habit. Woody perennial.

***Pleioblastus* Nakai, J. Arnold Arbor. 6(3): 145. 1925**

Lectotype. *Pleioblastus communis* (Makino) Nakai (*Arundinaria communis* Makino). LT designated by McClure in Taxon 6: 207. 1957.

29. *Pleioblastus simonii* (Carrière) Nakai, J. Arnold Arbor. 6(3): 147. 1925

Bambusa simonii Carrière, Rev. Hort. [Paris]. 37: 380. 1866. Type: China?; 1862; *E. Simon* s.n. (P).

Distribution. Arunachal Pradesh. Possibly cultivated in India; probably native to Japan.

Habit. Woody perennial.

Remarks. Taxonomic editor Clark notes, “Although the type is supposedly from China, I know of no valid records from that country.”

***Pseudosasa* Makino ex Nakai, J. Arnold Arbor. 6(1): 150. 1925**

Lectotype. *Pseudosasa japonica* (Siebold & Zucc. ex Steud.) Nakai (*Arundinaria japonica* Siebold & Zucc. ex Steud.). LT designated by LT designated by McClure in Taxon 6(7): 207. 1957.

30. *Pseudosasa japonica* (Siebold & Zucc. ex Steud.) Makino. ex Nakai, J. Arnold Arbor. 6: 150. 1925

Arundinaria japonica Siebold & Zucc. ex Steud., Syn. Pl. Glumac. 1: 334. 1854. Type: “Java” Japan: Metake; *P. F. von Siebold s.n.* (L).

Distribution. Meghalaya, West Bengal [China]. Cultivated only; native to Japan.

Habit. Woody perennial.

***Sarocalamus* Stapleton, Novon 14(3): 346. 2004**

Type. *Sarocalamus racemosus* (Munro) Stapleton.

31. *Sarocalamus racemosus* (Munro) Stapleton, Novon 14(3): 347. 2004

Arundinaria racemosa Munro, Trans. Linn. Soc. London 26: 17. 1868 Lectotype: India: North East Himalaya [Sikkim & Darjeeling District], Birch Hill, alt. 6000 ft.; August, 1857; *Thomson s.n.* (K). LT selected by Gamble, 1912 (fide Stapleton et al. 2004).

Fargesia racemosa (Munro) T. P. Yi, J. Bamboo Res. 2: 39. 1983

Yushania racemosa (Munro) R. B. Majumdar in S. Karthikeyan, Fl. Ind. ser. 4, 1 (Monocotyledon): 283. 1989

Distribution. Arunachal Pradesh, Manipur, Nagaland, Sikkim, West Bengal [Bhutan, China, Nepal].

Habit. Woody perennial.

***Semiarundinaria* Makino ex Nakai, J. Arnold Arbor. 6: 150. 1925**

Lectotype. *Semiarundinaria fastuosa* (Mitford) Nakai (*Bambusa fastuosa* Mitford). LT designated by A. Rehder in Bibliogr. Cult. Trees Shrubs 638. 1949

32. *Semiarundinaria densiflora* (Rendle) T.H. Wen, J. Bamboo Res. 8(1): 24. 1989

Arundinaria densiflora Rendle, J. Linn. Soc., Bot. 36: 434. 1904. Syntypes: Kiangsu: Kiangsu Hills; *Faber 19* (K). Chekiang: Hills near Huchan, Taiboo Lake; *Charles 227*(K).

Fargesia densiflora (Rendle) Nakai, J. Arnold Arbor. 6: 152. 1925

Brachystachyum densiflorum (Rendle) Keng, Sunyatsenia 4 (3–4): 153. 1940

Distribution. Kerala [China]. Cultivated in India.

Habit. Woody perennial.

Thamnocalamus Munro, Trans. Linn. Soc. London 26: 33, 157. 1868

Lectotype. *Thamnocalamus spathiflorus* (Trin.) Munro (*Arundinaria spathiflora* Trin.). LT designated by A. Rehder in Bibliogr. Cult. Trees 639. 1949.

33. *Thamnocalamus aristatus* (Gamble) E.G. Camus, Bambusees (Camus) 54. 1913

Arundinaria aristata Gamble, Ann. Roy. Bot. Gard. (Calcutta) 7: 18, t. 17. 1896. Lectotype: India: Sikkim, Phalut, alt. 10000 ft.; *Gammie s.n.* (K). LT designated by C.S. Chao & Renvoize in Kew Bull. 44(2): 363. 1989.

Thamnocalamus spathiflorus Munro, Trans. Linn. Soc. London 26(1): 34. 1868, p.p., non Trin. 1935

Distribution. Arunachal Pradesh, Assam, Manipur, Sikkim, West Bengal [Bhutan, Nepal].

Habit. Woody perennial.

34. *Thamnocalamus occidentalis* (Stapleton) Stapleton, J. Bot. Res. Inst. Texas 1(1): 140. 2007

Thamnocalamus spathiflorus Munro ssp. *occidentalis* Stapleton, Edinburgh J. Bot. 51(2): 283. 1994. Type: India: Uttar Pradesh, Kedarkanda, 9000 ft.; June, 1893; *Gamble 24341* (K).

Distribution. Himachal Pradesh, Uttar Pradesh.

Habit. Woody perennial.

35. *Thamnocalamus spathiflorus* (Trin.) Munro, Trans. Linn. Soc. London 26(1): 34. 1868

Arundinaria spathiflora Trin., Mém. Acad. Imp. Sci. Saint-Pétersbourg, Sér. 6, Sci. Math., Seconde Pt. Sci. Nat. 3: 617. 1835. Lectotype: Nepal: North West of Himalaya, alt. 7000 ft.; Numer. List [Wallich] no. 5041 (K). LT designated by C.S. Chao & Renvoize in Kew Bull. 44(2): 363. 1989

Distribution. Arunachal Pradesh, Assam, Himachal Pradesh, Uttar Pradesh, Uttarakhand [Bhutan, China, Nepal].

Habit. Woody perennial.

Yushania* Keng f., Acta Phytotaxonomica Sinica 6(4): 355–356. 1957*Type.** *Yushania niitakaymensis* (Hayata) P. C. Keng (*Arundinaria niitakaymensis* Hayata)**36. *Yushania anceps* (Mitf.) W.C. Lin, Bull. Taiwan Forest Res. Inst. 248: 9. 1974***Arundinaria anceps* Mitf., Bamb. Gard. 181. 1896. Type: Asia.*Sinarundinaria anceps* (Mitf.) C.S. Chao & Renvoize, Kew Bull. 44(2): 359. 1989*Arundinaria jaunsarensis* Gamble, Ann. Roy. Bot. Gard. (Calcutta) 7: 23. t. 22. 1896.Type: India: Uttar Pradesh, Jaunsar Hills, Mundali, alt. 7500 ft.; May, 1891; *Gamble* 23134 (K).*Chimonobambusa jaunsarensis* (Gamble) K.N. Bahadur & H.B. Naithani, Indian J. Forest. 1(1): 41. 1978*Yushania jaunsarensis* (Gamble) T.P. Yi, J. Bamboo Res. 2(1): 39. 1983*Fargesia elegans* (Kurz) J. Campbell ssp. *jaunsarensis* (Gamble) J. Campbell, Gen. Himal. Bamb. 38. 1985**Distribution.** Uttar Pradesh. Cultivated in Europe and the U.S.A.**Habit.** Woody perennial.**37. *Yushania elegans* (Kurz) R.B. Majumdar in S. Karthikeyan et al., Fl. Ind. ser. 4, 1 (Monocotyledon): 282. 1989***Arundinaria elegans* Kurz, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 42: 249. 1873. Type: Burma: Martaban, Nattaung Hills, alt. 5000–7000 ft.; *Kurz* 144 (K).*Sinobambusa elegans* (Kurz) Nakai, J. Arnold Arbor. 6: 152. 1925*Fargesia elegans* (Kurz) J. Campbell, Gen. Himal. Bamb. 37. 1985*Sinarundinaria elegans* (Kurz) C.S. Chao & Renvoize, Kew Bull. 44(2): 357. 1989**Distribution.** Arunachal Pradesh, Nagaland [Myanmar].**Habit.** Woody perennial.**38. *Yushania hirsuta* (Munro) R.B. Majumdar in S. Karthikeyan et al., Fl. Ind. ser. 4, 1 (Monocotyledon): 282. 1989***Arundinaria hirsuta* Munro, Trans. Linn. Soc. London 26(1): 30. 1868. Lectotype: India: Khasi Hills, among rocks, 5600 ft.; November, 1835; *Griffith* 6726 (K). LT designated by C.S. Chao & Renvoize in Kew Bull. 44(2): 355. 1989.*Sinarundinaria hirsuta* (Munro) C.S. Chao & Renvoize, Kew Bull. 44(2): 355. 1989

Distribution. Arunachal Pradesh, Assam, Meghalaya, Nagaland, Sikkim, West Bengal [Bhutan].

Habit. Woody perennial.

39. *Yushania maling* (Gamble) R.B. Majumdar in S. Karthikeyan et al., Fl. Ind. ser. 4, 1 (Monocotyledon): 283. 1989

Arundinaria maling Gamble, Bull. Misc. Inform. Kew 1912: 139. 1912. Lectotype: India: Darjeeling District, Tonglo [Tanglu], alt. 9000 ft.; May 23, 1904; *Osmaston s.n.* (K). LT designated by C.S. Chao & Renvoize in Kew Bull. 44(2): 356. 1989.
Fargesia maling (Gamble) J. Campbell, Gen. Himal. Bamb. 40. 1985
Sinarundinaria maling (Gamble) C.S. Chao & Renvoize, Kew Bull. 44(2): 356. 1988

Distribution. Arunachal Pradesh, Sikkim, West Bengal (all Naithani). [Bhutan, Nepal].

Habit. Woody perennial.

40. *Yushania microphylla* (Munro) R.B. Majumdar in S. Karthikeyan et al., Fl. Ind. ser. 4, 1 (Monocotyledon): 283. 1989

Arundinaria microphylla Munro, Trans. Linn. Soc. London 26(1): 32. 1868. Syntypes: Bhutan: Tashigang District, Sanah, alt. 7000 ft.; *Griffiths* 623 (K). Bhutan: Sanah, alt. 6000–10000 ft.; *Griffiths s.n.* (K).
Bambusa microphylla Griff., J. Trav. 1: 242, 259. 1847, nom. nud.
Sinarundinaria microphylla (Munro) C.S. Chao & Renvoize, Kew Bull. 44(2): 354. 1989

Distribution. Assam, Kerala, Sikkim, Meghalaya [Bhutan, Nepal].

Habit. Woody perennial.

41. *Yushania pantlingii* (Gamble) R.B. Majumdar in S. Karthikeyan et al., Fl. Ind. ser. 4, 1 (Monocotyledon): 283. 1989

Arundinaria pantlingii Gamble, Ann. Roy. Bot. Gard. (Calcutta) 7: 129 ('Pantlingi'). t. 118. 1896. Type: India: Darjeeling District, Sikkim border "Hills of British Bhutan," Rechi La, 11000 ft.; September, 1895; *Pantling's collectors s.n.* (K).
Fargesia pantlingii (Gamble) J. Campbell, Gen. Himal. Bamb. 41. 1985
Semiarundinaria pantlingii (Gamble) Nakai, J. Arnold Arbor. 6: 151. 1925
Sinarundinaria pantlingii (Gamble) C.S. Chao & Renvoize, Kew Bull. 44(2): 359. 1989

Distribution. Arunachal Pradesh, Sikkim, West Bengal [Bhutan, Nepal].

Habit. Woody perennial.

42. *Yushania rolloana* (Gamble) T.P. Yi, *J. Bamboo Res.* 2(1): 39. 1983

Arundinaria rolloana Gamble, Ann. Roy. Bot. Gard. (Calcutta) 7: 24. t. 23. 1896.

Type: India: Assam, Naga Hills, Zullah Valley, alt. 5000–7000 ft.; 1889; “Gopal Banerjee”; *J. Rollo s.n.* (K).

Sinarundinaria rolloana (Gamble) C.S. Chao & Renvoize, Kew Bull. 44(2): 355. 1989

Distribution. Assam, Nagaland.

Habit. Woody perennial.

Taxonomic editor Clark suggests that it is doubtful that the following species of *Arun-dinarieae* occur in India:

Himalayacalamus gyirongensis (T.P. Yi) Stapleton, J. Bot. Res. Inst. Texas 1(1): 141. 2007 [doubtful species; also, this is considered a synonym of *Himalayacalamus falconeri* in the Flora of China.]

Himalayacalamus planatus Stapleton, J. Bot. Res. Inst. Texas 1(1): 137. 2007 [known from Nepal]

Himalayacalamus porcatus Stapleton, J. Bot. Res. Inst. Texas 1(1): 141. 2007 [doubtful species]

Thamnocalamus chigar (Stapleton) Stapleton, J. Bot. Res. Inst. Texas 1(1): 140. 2007 [doubtful species]

Thamnocalamus nepalensis (Stapleton) Stapleton, J. Bot. Res. Inst. Texas 1(1): 140. 2007 [doubtful species]

Tribe Bambuseae Kunth ex Dumort., 1829

Woody bamboos, often tree-like. Rhizomes pachymorph and the plants clumping, but necks sometimes elongated; one New World genus sometimes with amphimorph rhizomes. Branches developing either from the bottom to the top of the plant (acropetal) or bidirectional. Outer ligule generally present. Spikelets laterally compressed, disarticulating above the glumes. Midrib mostly with complex vasculature.

Members of this tribe are tropical and either tetraploid or hexaploid, mostly with $2n = 48$ or 72 , although some aneuploid numbers have been reported (Bamboo Phylogeny Group 2012). Pseudospikelets, in which the spikelet themselves form branched structures, are common but not universal in this group (Bamboo Phylogeny Group 2012). The Old World species of Bambuseae form a clade separate from the New World species (Kelchner and Bamboo Phylogeny Group 2013; Triplett et al. 2014).

***Bambusa* Schreb., Gen. Pl., ed. 8[a] 236. 1789, nom. cons.**

Type. *Bambusa arundinacea* (Retz.) Willd. (*Bambos arundinacea* Retz.).

43. *Bambusa affinis* Munro, Trans. Linn. Soc. London 26(1): 93. 1868

Type. “Hab. in Ind. or. Burmah, Yoongalum (Teesheincolis); *Brandis 18*.”

Distribution. Tripura [Myanmar].

Habit. Woody perennial.

Remarks. Record for India fide Naithani (1990).

44. *Bambusa alamii* Stapleton, J. Edinb. J. Bot. 51(1): 10, f. 3. 1994.

Type. Nepal; 9 Jan 1991; *Stapleton 907* (E).

Distribution. Assam [Bangladesh, Bhutan, Nepal].

Habit. Woody perennial.

45. *Bambusa alemtemshii* H.B. Naithani, Indian Forester 133(11): 1575. 2007

Type. India: Nagaland, Longsa village, Mokokchung District; December 5, 2004; *H.B. Naithani 4338* (DD).

Distribution. Assam, Nagaland.

Habit. Woody perennial.

46. *Bambusa balcooa* Roxb., Fl. Ind. (Roxburgh) 2: 196. 1832

Dendrocalamus balcooa (Roxb.) Voigt, Hort. SubLurb. Calcutt. 718. 1845

Type. “A native of India: Bengal.” Lectotype: *Roxb. Icones 1402* (K). LT designated by Stapleton in *Edinburgh J. Bot.* 51(1): 12. 1994.

Distribution. Arunachal Pradesh, Assam, Bihar, Kerala, Manipur, Meghalaya, Mizoram, Nagaland, Odisha, Tripura, Uttarakhand, Uttar Pradesh, West Bengal [Bangladesh, China]. Widely cultivated in northern India and Bangladesh, thought to originate from this region but known only in cultivation.

Habit. Woody perennial.

47. *Bambusa bambos* (L.) Voss, Vilm. Blumengärtn., ed. 3. 1: 1189. 1895 var. *bambos*

Arundo bambos L., Sp. Pl. 1: 81. 1753. Type: “Habitat in India utraque.” Lectotype = “Ily” in Rheede, Hort. Malab. 1: 25. t. 16. 1678. LT designated by Judziewicz in Görts-van Rijn (ed.), Fl. Guianas, ser. A, 8: 50. 1990.

Bambusa arundinacea (Retz.) Willd., Sp. Pl., ed. 4 [Willdenow] 2: 245. 1799

Bambos arundinacea Retz., Observ. Bot. (Retzius) 5: 24. 1788 (“1789”). Lectotype: India orientalis: *Herbarium Retzii s.n. right-hand side only* (No. 2), H554/90 (LD). LT designated by Xia & Stapleton in Kew Bull. 52(3): 697. 1997.

Distribution. Andhra Pradesh, Assam, Chhattisgarh, Goa, Gujarat, Himachal Pradesh, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Rajasthan, Tamil Nadu, West Bengal [Bangladesh, China, Myanmar, Pakistan, Sri Lanka]. Cultivated and naturalized in India.

Habit. Woody perennial.

Remarks. Taxonomic editor Clark notes that there are more synonyms in the literature; see Ohrnberger (1999) and Vorontsova et al. (2016).

48. *Bambusa burmanica* Gamble, Ann. Roy. Bot. Gard. (Calcutta) 7: 35–36. t. 33. 1896

Type. Burma: Katha District, dry slopes; *J.W. Oliver s.n.*

Distribution. Arunachal Pradesh, Assam, Manipur, Uttar Pradesh, West Bengal [China, Myanmar].

Habit. Woody perennial.

49. *Bambusa cacharensis* R.B. Majumdar, Bull. Bot. Surv. India 25(1–4): 237. f. 1. 1985 (“1983”)

Type. India: Cachar, Lakhimpur, Mar Bastee; *Majumdar 74265A* (CAL).

Distribution. Assam, Manipur, Meghalaya, Tripura [Bangladesh].

Habit. Woody perennial.

Remarks. Taxonomic editor Clark notes that Devi and Bhattacharyya (2013) reported the range listed here. Record for Assam fide Naithani (1990).

50. *Bambusa copelandii* Gamble ex Brandis, Indian Trees 671. 1906 (as “copelandi”)

Sinocalamus copelandii (Gamble ex Brandis) Raizada, Indian Forester 74(1): 10. 1948 (as “copelandi”)

Dendrocalamus copelandii (Gamble ex Brandis) N.H.Xia & Stapleton, Kew Bull. 52: 484. 1997

Lectotype. India: Dehra Dun, cultivated, alt. 2200 ft.; September, 1898; *Gamble* 27166 (K). LT designated by Xia & Stapleton in Kew Bull. 52: 484. 1997.

Distribution. Uttar Pradesh, West Bengal [China].

Habit. Woody perennial.

Remarks. Taxonomic editor Clark wrote, "This species is indicated as occurring in these two states in Seethalakshmi & Kumar (1998)." She also notes that it is cultivated in the Botanical Garden at the Calcutta & Forest Research Institute, Dehra Dun, as well as in the Tropical Botanical Garden and Research Institute, Kerala.

51. *Bambusa griffithiana* Munro, Trans. Linn. Soc. London 26(1): 99. 1868

Type. "Hab. in Ind. or. Burmah, Mogoung; *Griffith s.n.*"

Distribution. Manipur [Myanmar].

Habit. Woody perennial.

Remarks. Record for Manipur fide Naithani (1990).

52. *Bambusa jaintiana* R.B. Majumdar in S. Karthikeyan et al., Fl. Ind. ser. 4, 1 (Monocotyledon): 274. 1989

Type. India: Shillong; *G.K. Deka* 31765 (CAL).

Distribution. Assam, Meghalaya [Bangladesh, Bhutan, Myanmar].

Habit. Woody perennial.

53. *Bambusa khasiana* Munro, Trans. Linn. Soc. London 26(1): 97. 1868

Syntypes. India: Khasia, alt. 2000–4000 ft., Churra; *Hooker no. 1097*. Jasper Hill, Mahadeb; *Hooker* 496

Distribution. Assam, Manipur, Meghalaya [Myanmar].

Habit. Woody perennial.

54. *Bambusa kingiana* Gamble, Ann. Roy. Bot. Gard. (Calcutta) 7: 46. t. 42 1896

Type. Burma: Katha District, Petsut; *J.W. Oliver s.n.*

Distribution. Manipur [Myanmar].

Habit. Woody perennial.

Remarks. Record for Manipur fide Naithani (1990).

55. *Bambusa longispiculata* Gamble ex Brandis, Indian Trees 668. 1906

Type. Bangladesh: Chittagong Hill tracts, Ruby mine District, alt. 3500 ft.; *Griffith s.n.*

Distribution. Meghalaya, Mizoram, Tamil Nadu, Uttar Pradesh, West Bengal [Bangladesh, China, Myanmar].

Habit. Woody perennial.

Remarks. Records for Meghalaya and Mizoram fide Naithani (1990).

56. *Bambusa majumdari* P. Kumari & P. Singh, Kew Bull. 64: 565. 2009

Type. India: Meghalaya: Garo Hills, near Tura, 14 Sept. 2005, *Kumari & Singh 34696* (CAL).

Distribution. Meghalaya.

Habit. Woody perennial.

57. *Bambusa mohanramii* P. Kumari & P. Singh, Kew Bull. 64: 567. 2009

Type. India: Meghalaya: Jaintia hills, Khleiriaht, 9 April 2004, *Kumari 34608* (CAL).

Distribution. Meghalaya.

Habit. Woody perennial.

58. *Bambusa multiplex* (Lour.) Raeusch. ex Schult. & Schult.f., Syst. Veg., ed. 15 bis [Roemer & Schultes] 7(2): 1350. 1830

Arundo multiplex Lour., Fl. Cochinch. 1: 58. 1790. Type: “Habitat loca culta in provinciis Borialibus Cochinchinae, ex eaque Plantantur fepes ad divifionem hortorum.”

Bambusa nana Roxb., Fl. Ind. (Roxburgh) 2: 199. 1832. Type: “*Keu-fa*, of the Chinese; a native of their country, and now plentiful in the Botanic Garden at Calcutta...”

Ludolfia glaucescens Willd., Ges. Naturf. Freunde Berlin Mag. Neuesten Entdeck. Gesammten Naturk. 2: 320. 1808. Type: “Die von Michaux beschriebene Art soll ein hoher Baum werden und in einer Rispe blühen. Ich nenne sie.”

Bambusa glaucescens Siebold ex Munro, Trans. Linn. Soc. London 26(1): 89. 1868, nom. invalid, pro. syn.

Distribution. Assam, Bihar, Meghalaya [Bangladesh, China, Myanmar, Sri Lanka]. Probably naturalized in addition to being cultivated; probably native to Indo-China and southern China, but now known only in cultivation

Habit. Woody perennial.

Remarks. Taxonomic editor Clark wrote, “Introduced into the Indian Botanical Garden in 1794.”

59. *Bambusa nagalandiana* H.B. Naithani, Indian Forester 133(9): 1267–1269. 2007 (as “nagalandeana”)

Type. India: Nagaland, Mon District, Wanching village; December 9, 2004; *H.R. Naithani 4344* (DD).

Distribution. Nagaland.

Habit. Woody perennial.

60. *Bambusa nairiana* P. Kumari & P. Singh, Bull. Surv. India 50: 13. 2009 (“2008”)

Type. India: Meghalaya: Garo hills, near Nokrek, 14 Sept. 2005, *Kumari & Singh 34698* (CAL).

Distribution. Meghalaya.

Habit. Woody perennial.

61. *Bambusa nutans* Wall ex Munro, Trans. Linn. Soc. London 26(1): 92. 1868

Bambusa falconeri Munro, Trans. Linn. Soc. London 26: 95. 1868

Lectotype. Nepal: Kathmandu, Naga-Arjun [Nagarjun, 27°44'N, 85°71'E]; 1821; Numer. List [Wallich] no. 5031(K-W). LT designated by Stapleton in Edinburgh J. Bot. 51: 17 1994.

Distribution. Arunachal Pradesh, Assam, Bihar, Himachal Pradesh, Jammu and Kashmir, Madhya Pradesh, Odisha, Sikkim, Tripura, Uttar Pradesh, Uttarakhand, West Bengal [Bangladesh].

Habit. Woody perennial.

62. *Bambusa oliveriana* Gamble, Ann. Roy. Bot. Gard. (Calcutta) 7: 130. t. 116. 1896

Syntypes. Burma: 30 miles north from Mandalay, alt. 1000–2000 ft.; 1893–94; *J.W. Oliver s.n.* Ruby Mines Hills; *C.S. Rogers s.n.*

Distribution. Mizoram, Uttarakhand, West Bengal [Myanmar]. Cultivated; native to Myanmar.

Habit. Woody perennial.

Remarks. Record for Mizoram fide Naithani (1990).

63. *Bambusa pallida* Munro, Trans. Linn. Soc. London 26(1): 97. 1868

Bambusa critica Kurz, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 42: 255. 1873. Type: Burma.

Dendrocalamus criticus (Kurz) Kurz, Prelim. Rep. Forest Pegu, App. B: 94. 1875

Bambusa pseudopallida R.B. Majumdar in S. Karthikeyan et al., Fl. Ind. ser. 4, 1 (Monocotyledon): 275. 1989. Type: India: Umtaph on Dawki-Jarain Road; *N.P. Balakrishnan* 42700 (CAL).

Syntypes. India: Bengalia, Pundua & Silhet (cult.), Cachar, Khasia, Joowye, alt. 3500 ft. *Hooker & Thomson* 602, 607 (K).

Distribution. Arunachal Pradesh, Assam, Karnataka, Kerala, Meghalaya, Mizoram, Nagaland, North Bengal, Sikkim, Tamil Nadu, Tripura, Uttaranchal, Uttar Pradesh, West Bengal [Bangladesh, Bhutan, China, Myanmar].

Habit. Woody perennial.

64. *Bambusa polymorpha* Munro, Trans. Linn. Soc. London 26(1): 98. 1868

Syntypes. Burma: Martaban, Pegu, (“Kijathounwa”); *Brandis no. 1*. Rangoon; *McClelland s.n.*

Distribution. Arunachal Pradesh, Assam, Karnataka, Kerala, Madhya Pradesh, Manipur, Meghalaya, Tamil Nadu, Tripura, West Bengal [Bangladesh, China, Myanmar]. Cultivated in northwestern parts of India, introduced in Karnataka, Kerala and Tamil Nadu; probably native to northeastern India, Bangladesh and Myanmar.

Habit. Woody perennial.

Remarks. Records for Assam, Madhya Pradesh, and Tripura fide Naithani (1990).

65. *Bambusa teres* Buch.-Ham. ex Munro, Trans. Linn. Soc. London 26(1): 95. 1868

Syntypes. India: Bengal, Gongachora; *Buchanan-Hamilton* 881, *Griffith s.n.* Assam; *Jenkins s.n.*

Distribution. Arunachal Pradesh, Assam, Chhattisgarh, Madhya Pradesh, Manipur, Meghalaya, Nagaland, Tripura, West Bengal [Bangladesh, Bhutan, China, Myanmar, Nepal].

Habit. Woody perennial.

66. *Bambusa tulda* Roxb., Fl. Ind. (Roxburgh) 2: 193. 1832 var. *tulda*

Type. “The common bamboo of India: Bengal, where it grows in the greatest abundance every where.” Lectotype: *Roxb. Icones* 1403 (K). LT designated by Stapleton in *Edinburg J. Bot.* 51(1): 19. 1994.

Distribution. Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Jharkhand, Karnataka, Manipur, Meghalaya, Mizoram, Nagaland, North Bengal, Odisha, Sikkim, Tripura, Uttar Pradesh, Uttarakhand, West Bengal [Bangladesh, Bhutan, China, Myanmar, Nepal].

Habit. Woody perennial.

Remarks. Taxonomic editor Clark notes “Kumari & Singh (2014) indicate that this variety is cultivated in Arunachal Pradesh, Karnataka, North Bengal and Uttar Pradesh.”

67. *Bambusa tulda* Roxb. var. *gamblei* P. Kumari & P. Singh, Bamboo of Meghalaya 58. 2014

Type. India: Meghalaya: Garo hills, near Nokrek, 14 Sept. 2005, *Kumari & Singh* 346700 (CAL).

Distribution. Meghalaya.

Habit. Woody perennial.

68. *Bambusa vulgaris* J.C. Wendl., Coll. Pl. 2: 26, t. 47. 1810, nom. cons.

Bambusa surinamensis Rupr., Bambuseae 49, t. 11. f. 49. 1839. Type: Surinam; 1827–1828; *Weigelt s.n.*

Bambusa thouarsii Kunth, Révis. Gramin. 1: 323, t. 73, 74. 1830. Type: “Crescit in insulis Madagascariae et Borboniae.”

Type. “*Bambusa vulgaris* Wendl.”, India; ex herb Wendlan (GOET nos. 13986–13919) (typ. cons.).

Distribution. Assam, Bihar, Chhattisgarh, Goa, Kerala, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Odisha, Rajasthan, West Bengal [Bangladesh, China, Sri Lanka].

Habit. Woody perennial.

Remarks. Taxonomic editor Clark notes that there are many other synonyms in the literature; see Ohrnberger (1999) and Vorontsova et al. (2016).

***Cephalostachyum* Munro, Trans. Linn. Soc. London 26: 138. 1868.**

Type. LT.: *C. capitatum* Munro (designated by McClure, Taxon 6: 201. 1957).

69. *Cephalostachyum capitatum* Munro, Trans. Linn. Soc. London 26(1): 139. 1868 var. *capitatum*

Schizostachyum capitatum (Munro) R.B. Majumdar in S. Karthikeyan et al., Fl. Ind. ser. 4, 1 (Monocotyledon): 281. 1989, non (Trin.) Rupr., 1840

Schizostachyum munroi S.Kumar & Par. Singh, J. Indian Bot. Soc. 70(1–4): 423. 1991

Syntypes. “Hab. in India or montibus, Khasia, Churra, 4000 ped. s.m.; *Wallich et Griffith* 1078, 1392 (in Herb. Griff.) Nunklow (“Sillee et Sullea”), no. 1813. Sikkim, 4000–6000 ft., Myong Valle (“Pyong”), Hooker & Thomson.”

Distribution. Arunachal Pradesh, Assam, Meghalaya, Mizoram, Nagaland, Sikkim [Bhutan].

Habit. Woody perennial.

Remarks. Taxonomic editor Clark notes that, “According to Kumari & Singh (2014), this was lectotypified by Stapleton in 1994. This needs to be verified, as they cite *Griffith hb. No. 2682* as the LT.”

70. *Cephalostachyum capitatum* Munro var. *decompositum* Gamble, Ann. Roy. Bot. Gard. (Calcutta) 7: 105. 1896 (as “decomposita”)

Schizostachyum capitatum (Trin.) Rupr. var. *decompositum* (Gamble) R.B. Majumdar in S. Karthikeyan et al., Fl. Ind. ser. 4, 1 (Monocotyledon): 281. 1989

Type. India: Sikkim; *T. Anderson & Kurz s.n.*

Distribution. Meghalaya, Sikkim.

Habit. Woody perennial.

Remarks. Taxonomic editor Clark notes that this variety was “not recognized in Kumari & Singh (2014), but also not formally synonymized.”

71. *Cephalostachyum flavescens* Kurz, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 42: 252. 1873

Schizostachyum flavescens (Kurz) R.B. Majumdar in S. Karthikeyan et al., Fl. Ind. ser. 4, 1 (Monocotyledon): 281. 1989

Type. Pegu: H.B.C. culta.

Distribution. Andaman and Nicobar Islands, Tamil Nadu [Myanmar].

Habit. Woody perennial.

Remarks. Taxonomic editor Clark notes that this is also cultivated in West Bengal (Indian Botanic Gardens, Kolkata). Record for Andaman & Nicobar Islands fide Naithani (1990).

72. *Cephalostachyum latifolium* Munro, Trans. Linn. Soc. London 26(1): 140. 1868

Schizostachyum latifolium (Munro) R.B. Majumdar in S. Karthikeyan, Fl. Ind. ser. 4, 1 (Monocotyledon): 281. 1989, non Gamble, 1896

Cephalostachyum fuchsianum Gamble, Ann. Roy. Bot. Gard. (Calcutta) 7: 107, t. 94. 1896. Type: India: Sikkim, Songchonglu, alt. 6000 ft.; 1889–1892; *Gammie s.n.* (K).

Schizostachyum fuchsianum (Gamble) R.B. Majumdar in S. Karthikeyan, Fl. Ind. ser. 4, 1 (Monocotyledon): 281. 1989

Cephalostachyum longwanum H.B. Naithani, Indian Forester 136: 406. 2010

Lectotype. Bhutan; *W. Griffith* 2682 (K). LT designated by Stapleton in Edinburgh J. Bot. 51: 29. 1994.

Distribution. Arunachal Pradesh, Manipur, Nagaland, Sikkim, West Bengal [Bhutan, China, Myanmar, Nepal].

Habit. Woody perennial.

73. *Cephalostachyum mannii* (Gamble) Stapleton & D. Z. Li, Kew Bull. 52: 700. 1997

Arundinaria mannii Gamble, Ann. Roy. Bot. Gard. (Calcutta) 7: 26. 1896. Type: India: Meghalaya, Amkasur, Jainita Hills, 3000 ft.; April 24, 1889; *G. Mann* 21845 (K).

Neomicrocalamus mannii (Gamble) R.B. Majumdar in S. Karthikeyan et al., Fl. Ind. ser. 4, 1 (Monocotyledon): 279. 1989

Racemobambos mannii (Gamble) M. Kumar, Bamboos of India, Compendium 230. 1998

Distribution. Meghalaya [China].

Habit. Woody perennial.

74. *Cephalostachyum mishimianum* H. B. Naithani, Indian Forester 140(7): 733. 2014 (as “mishmianum”)

Type. Arunachal Pradesh: 5 km after Udayk Pass, way to Hayuling 1200 m, Lohit District, *H.B. Naithani* 2141 (holotype: DD).

Distribution. Arunachal Pradesh.

Habit. Woody perennial.

75. *Cephalostachyum pallidum* Munro, Trans. Linn. Soc. London 26(1): 139. 1868

Schizostachyum pallidum (Munro) R.B. Majumdar in S. Karthikeyan et al., Fl. Ind. ser. 4, 1 (Monocotyledon): 282. 1989

Type. India: Mishmee, Birmah, Patkaye, 5000 ft.; *Griffith s.n.*

Distribution. Arunachal Pradesh, Manipur, Meghalaya [Myanmar].

Habit. Woody perennial.

Remarks. Taxonomic editor Clark notes that “In their discussion on p. 63, Kumari and Singh (2014) evidently consider this species as a synonym of *C. capitatum*, but do not formally synonymize it.”

76. *Cephalostachyum pergracile* Munro, Trans. Linn. Soc. London 26(1): 141. 1868

Schizostachyum pergracile (Munro) R.B. Majumdar in S. Karthikeyan et al., Fl. Ind. ser. 4, 1 (Monocotyledon): 282. 1989

Syntypes. Burma: Rangoon; *J.E. McClelland s.n.* Pegu; *Brandis s.n.*

Distribution. Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Madhya Pradesh, Manipur, Nagaland, Odisha [China, Myanmar].

Habit. Woody perennial.

***Dendrocalamus* Nees, Linnaea 9: 476. 1835**

Type. *Dendrocalamus strictus* (Roxb.) Nees (*Bambusa stricta* Roxb.).

77. *Dendrocalamus asper* (Schult. & Schult. f.) Backer ex K. Heyne, Nutt. Pl. Ned.-Ind., ed. 2, 1: 301. 1927

Bambusa aspera Schult. & Schult. f., Syst. Veg., ed. 15 bis [Roemer & Schultes] 7(2): 1352–1353. 1830. Type: “Arundarbor aspera Rumphius, Herb. Amb. 4: 11. In Amboina et Huamchela ad montium pedes.”

Distribution. Andaman and Nicobar Islands [China, Myanmar].

Habit. Woody perennial.

Remarks. Taxonomic editor Clark notes that this name has other synonyms in the literature; see Ohrnberger (1999) and Vorontsova et al. (2016).

78. *Dendrocalamus brandisii* (Munro) Kurz, Prelim. Rep. Forest Pegu, App. B: 94. 1875

Bambusa brandisii Munro, Trans. Linn. Soc. London 26(1): 109–110. 1868. Type: “Hab. in Ind. or. Tenasserim, Martaban, Pegu, usque ad 4000 ped. S.M., praecipue in saxis calcareis, Brandis no. 2

Distribution. Andaman and Nicobar Islands, Karnataka, Kerala, Manipur, West Bengal [Myanmar, China, Myanmar]. Naturalized and cultivated; native to Laos, Myanmar, Thailand and Vietnam but its natural distribution may include Manipur and the Andaman Islands.

Habit. Woody perennial.

Remarks. Record for Karnataka fide Naithani (1990).

79. *Dendrocalamus calostachyus* (Kurz) Kurz, Prelim. Rep. Forest Pegu, App. B: 94. 1875

Bambusa calostachya Kurz, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist 42: 250. 1873. Type: Burma: Ava, Bhamo, Kakhyen Hills, alt. 3500 ft.; *Kurz s.n.*

Distribution. Meghalaya, Nagaland [China, Myanmar]. Native to northeastern India, China and Myanmar and also cultivated more widely in India.

Habit. Woody perennial.

80. *Dendrocalamus collettianus* Gamble, Ann. Roy. Bot. Gard. (Calcutta) 7: 93. t. 83. 1896

Type. Burma: Fort Stedman; 1892; *Abdul Huk s.n.*

Distribution. West Bengal [China, Myanmar]. Only cultivated in India.

Habit. Woody perennial.

81. *Dendrocalamus giganteus* Munro, Trans. Linn. Soc. London 26(1): 150. 1868

Type. “Cult. Calcutta” [Botanical Garden, Calcutta], Lectotype: *Hb. Munro* (K). LT designated by Stapleton in Edinburg J. Bot. 51(1): 23. 1994.

Distribution. Arunachal Pradesh, Assam, Maharashtra, Manipur, Meghalaya, Nagaland, Sikkim, Uttar Pradesh, Uttarakhand, West Bengal [China, Myanmar, Nepal, Sri Lanka]. Probably only cultivated in India; probably native to Malaysia, Myanmar and Thailand.

Habit. Woody perennial.

82. *Dendrocalamus hamiltonii* Nees & Arn. ex Munro, Trans. Linn. Soc. London 26(1): 151. 1868

Bambusa monogynia Griff., Not. Pl. Asiat. 3: 63. 1851 (non *B. monogyna* Blanco, 1837)

Lectotype. India: Assam, Goalpara; July 17, 1808; *Buchanan-Hamilton* 882 (E). LT designated by Stapleton in *Edinburg J. Bot.* 51(1): 23. 1994

Distribution. Arunachal Pradesh, Assam, Bihar, Himachal Pradesh, Manipur, Meghalaya, Mizoram, Nagaland, Odisha, Sikkim, Tripura, Uttar Pradesh, Uttarakhand [Bangladesh, Bhutan, China, Myanmar, Nepal, Pakistan].

Habit. Woody perennial.

83. *Dendrocalamus hookeri* Munro, Trans. Linn. Soc. London 26(1): 151. 1868 var. *hookeri*

Lectotype. India: Bengal orient, Pundua; June 11, 1850; *J.D. Hooker & Thomson* 411 (K). LT designated by Stapleton in *Edinburg J. Bot.* 51(1): 26. 1994

Distribution. Arunachal Pradesh, Assam, Manipur, Meghalaya, Mizoram, Nagaland, North Bengal, Sikkim, West Bengal [Bhutan, Myanmar, Nepal].

Habit. Woody perennial.

84. *Dendrocalamus longispathus* Kurz, Prelim. Rep. Forest Pegu, App. B: 94. 1875

Type. Burma: mixed and tropical forests of Arracan, Pegu Yomah and Martaban; *Metam s.n.*

Distribution. Assam, Bihar, Meghalaya, Mizoram, Odisha, Tripura, West Bengal [Bangladesh, China, Myanmar, Thailand].

Habit. Woody perennial.

85. *Dendrocalamus membranaceus* Munro, Trans. Linn. Soc. London 26(1): 149. 1868

Bambusa membranacea (Munro) Stapleton & N.H. Xia, *Kew Bull.* 52(1): 238. 1997
Dendrocalamus longifimbriatus Gamble, *Ann. Roy. Bot. Gard. (Calcutta)* 7: 92. 1896

Type. Burma: Martaban, Troglia; March 12, 1827; Numer. List [Wallich] no 5029 (K). LT designated by Stapleton & N.H. Xia in *Kew Bull.* 52: 238. 1997.

Distribution. Kerala, West Bengal [China, Myanmar]. Apparently only cultivated in India; native to Laos, Myanmar and Thailand.

Habit. Woody perennial.

86. *Dendrocalamus parishii* Munro, Trans. Linn. Soc. London 26(1): 149. 1868

Dendrocalamus hookeri Munro var. *parishii* (Munro) Blatt., Indian Forester 55(11): 594. 1929

Type. India: Punjab Himalaya; *Parish s.n.*

Distribution. Arunachal Pradesh, Assam, Himachal Pradesh, Manipur, Meghalaya Mizoram, Nagaland, Punjab, Sikkim, West Bengal [China, Myanmar, Nepal, Pakistan].

Habit. Woody perennial.

Remarks. Taxonomic editor Clark notes that “This species is not treated in Kumari and Singh (2014) and is not even included in their index. Perhaps does not occur in Meghalaya? Or more likely, given the distribution, is considered synonymous with *D. hookeri*. Needs further study.”

87. *Dendrocalamus sahnii* H.B. Naithani & Bahadur, Indian Forester 108(3): 212. f. 1. 1982

Type. India: Arunachal Pradesh, Subansiri District, Zoram, alt. 6000 ft.; April 28, 1977; *H.B. Naithani ser II no. 902* (DD).

Distribution. Arunachal Pradesh.

Habit. Woody perennial.

88. *Dendrocalamus sericeus* Munro, Trans. Linn. Soc. London 26(1): 148. 1868

Dendrocalamus strictus (Roxb.) Nees var. *sericeus* (Munro) Gamble, Man. Ind. Timb., ed. 2, 751. 1902

Syntypes. India: Behar [Bihar], Parasnath, alt. 4000 ft.; September, 1858; *Thomson s.n.*, (K). India: Behar [Bihar], Parasnath; February, 1848; *Hooker s.n.* (K).

Distribution. Bihar.

Habit. Woody perennial.

Remarks. Taxonomic editor Clark notes that this was treated in Ohrnberger (1999) as a variety of *D. strictus*. Further study is required.

89. *Dendrocalamus sikkimensis* Gamble ex Oliver, Hooker's Icon. Pl. 18: t. 1770. 1888

Lectotype. India: Sikkim; July 20, 1885; *Pantling s.n.* (K). LT designated by Stapleton in Edinburg J. Bot. 51(1): 26. 1994

Distribution. Arunachal Pradesh, Assam, Meghalaya, Mizoram, Nagaland, North Bengal, Sikkim, West Bengal [Bhutan, China, Nepal].

Habit. Woody perennial.

90. *Dendrocalamus somdevae* H.B. Naithani, *Indian Forester* 119(6): 504. 1993 (as “somdevai”)

Type. Uttarakhand: Dehra Dun, Hardwar road between Jogiwala and Majri (Mokham-pur), 11.3.1991, Som Deva 10985 (Holotype DD).

Distribution. Uttar Pradesh.

Habit. Woody perennial.

91. *Dendrocalamus strictus* (Roxb.) Nees, *Linnaea* 9: 476–477. 1835

Bambos stricta Roxb., Pl. Coromandel 1: 58. t. 80. 1798. Type: India: undershrub in deciduous forests; *Roxburgh s.n.* (K).

Distribution. Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Chhattisgarh, Dadra and Nagar Haveli, Gujarat, Himachal Pradesh, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Meghalaya, Odisha, Rajasthan, Tamil Nadu, Uttar Pradesh [Bangladesh, China, Nepal, Pakistan].

Habit. Woody perennial.

Remarks. Author K. Gandhi observes, “Since Roxburgh’s collections from the Coromandel Coast were destroyed in a flood, a good comprehensive collection with the same local name from the same area should be made and designated as a neotype.” See also Stapleton (1994).

***Dinochloa* Buse, *Gram.* (Buse) 47. 1854**

Type. *Dinochloa tjankorreh* Buse, *nom. illeg.* (*Bambusa scandens* Blume, *Dinochloa scandens* (Blume) Kuntze).

92. *Dinochloa andamanica* Kurz, *J. Asiat. Soc. Bengal*, Pt. 2, Nat. Hist. 42: 253. 1873

Type. India: “Andamans (etiam in insula Nicobaricis)”.

Distribution. Andaman and Nicobar Islands.

Habit. Woody perennial.

93. *Dinochloa maclellandii* (Munro) Kurz, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 42: 253. 1873 (as “maclellandii”)

Bambusa maclellandii Munro, Trans. Linn. Soc. London 26(1): 114. 1868 (as “M^cClellandii”). Type: “Hab. in Ind. or Pegu, Rangon, Phounggee Valley; M^cClelland v.s.”

Distribution. Arunachal Pradesh, Assam, Uttarakhand, West Bengal [Myanmar].

Habit. Woody perennial.

Remarks. Records for Arunachal Pradesh and Assam fide Naithani (1990).

94. *Dinochloa nicobariana* R.B. Majumdar in S. Karthikeyan et al., Fl. Ind. ser. 4, 1 (Monocotyledon): 277. 1989

Type. India: Nicobar Island, North Nicobar, Katchal Island, Coastal Forest; *P. Chakravarty 1129* (CAL).

Distribution. Andaman and Nicobar Islands.

Habit. Woody perennial.

95. *Dinochloa scandens* (Blume) Kuntze, Revis. Gen. Pl. 2: 773. 1891

Bambusa scandens Blume, Flora 7: 291. 1824. Type: Java: Megamendung; *Blume s.n.* (L).

Distribution. Andaman and Nicobar Islands. Cultivated; native to Indonesia.

Habit. Woody perennial.

***Gigantochloa* Kurz ex Munro, Trans. Linn. Soc. London 26: 123. 1868**

Lectotype. *Gigantochloa atter* (Hassk.) Kurz ex Munro (*Bambusa vulgaris* var. *atter* Hassk.). LT designated by Holttum in Taxon 5: 28–30. 1956.

96. *Gigantochloa albociliata* (Munro) Kurz, Prelim. Rep. Forest Pegu, App. A: cxxxvi; App. B: 93. 1875 (as “albo-ciliata”)

Oxytenanthera albociliata Munro, Trans. Linn. Soc. London 26(1): 129. 1868 (as “albo-ciliata”). Type: “Hab. in India or.” [Burma]: Pegu; *Brandis 19* (“Wapyoogle” incolis). India: Moulmein; *Falconer 27*

Distribution. Arunachal Pradesh, Assam, Meghalaya, Tripura, West Bengal [China, Myanmar]. Cultivated, perhaps also naturalized; native to Myanmar.

Habit. Woody perennial.

97. *Gigantochloa andamanica* (Kurz) Kurz, Prelim. Rep. For. Veg. Pegu, App. A. cxxxvi; App. B. 93 in clavi. 1875

Bambusa andamanica Kurz, J. Asiat. Soc. Bengal n.s. 39 (2): 88. 1870. Type: Andaman Islands, south Andaman; 1875; Kurz s.n.

Distribution. Andaman Islands [Myanmar].

Habit. Woody perennial.

Remarks. Taxonomic editor Clark notes that this name was treated as a synonym of *Gigantochloa nigrociliata* in Vorontsova et al. (2016); see also remarks under that species. The status of this taxon requires further study.

98. *Gigantochloa apus* (Schult. & Schult. f.) Kurz ex Munro, Trans. Linn. Soc. London 26: 126. 1868

Bambusa apus Schult. & Schult.f., Syst. Veg., ed. 15 bis [Roemer & Schultes] 7(2): 1353. 1830. Type: Indonesia: “Java ad montem Salaki”; *Blume* s.n. (check author). *Gigantochloa kurzii* Gamble, Ann. Roy. Bot. Gard. (Calcutta) 7: 65. 1896

Distribution. Meghalaya [Myanmar].

Habit. Woody perennial.

99. *Gigantochloa atrovioacea* Widjaja, Reinwardtia 10(3): 323. 1987

Type. Indonesia: Java, Wonosari, Nagasari; February, 1983; *Ramlanto* s.n. (BO).

Distribution. West Bengal. Known only from cultivation; also in Indonesia and Malaysia.

Habit. Woody perennial.

100. *Gigantochloa atter* (Hassk.) Kurz ex Munro, Trans. Linn. Soc. London 26: 125. 1868

Bambusa vulgaris Schrad. ex J.C. Wendl. var. *atter* Hassk., Cat. Hort. Bot. Bogor. (Hasskarl) 19. 1844

Bambusa thouarsii Kunth var. *atter* Hassk., Pl. Jav. Rar. 41. 1848

Syntypes. Indonesia: Java; *Horsfield* s.n. Java: Buitenzorg; *Kurz* s.n.

Distribution. West Bengal. Cultivated only. [Indonesia and Malaysia].

Habit. Woody perennial.

101. *Gigantochloa auriculata* (Kurz) Kurz, Prelim. Rep. Forest Pegu, App. A: cxxxvii; App. B: 94. 1875

Bambusa auriculata Kurz, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist 39: 86. 1870. Type: Burma: Southern Pegu; *Kurz 20* (CAL).

Distribution. Assam [Bangladesh, Myanmar].

Habit. Woody perennial.

Remarks. Taxonomic editor Clark notes that Seethalakshmi and Kumar (1998) treat this as a member of the genus *Bambusa*, but Widjaja, quoted in Ohrnberger (1999), discussed it as a species of *Gigantochloa*. The placement here follows Widjaja, but on the basis of the available information, she does not regard the generic placement as settled. Both Wu et al. (2006) and Vorontsova et al. (2016) treat this name as a synonym of *Bambusa vulgaris*.

102. *Gigantochloa hasskarliana* (Kurz) Backer ex K. Heyne, Nutt. Pl. Ned.-Ind., ed. 2 1: 299. 1927

Schizostachyum hasskarlianum Kurz, Indian Forester 1: 352. 1876. Syntypes: Indonesia: Java, alt. 2000–3000 ft. Sumatra: Padang

Distribution. Chhattisgarh, Madhya Pradesh, cultivated [also in Indonesia, where it is native].

Habit. Woody perennial.

Remarks. Record for Madhya Pradesh fide Naithani (1990).

103. *Gigantochloa macrostachya* Kurz, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 42: 251. 1873.

Type. Martaban, Tenasserim

Distribution. Arunachal Pradesh, Assam, Meghalaya, Mizoram [Bangladesh, Myanmar].

Habit. Woody perennial.

104. *Gigantochloa nigrociliata* (Buse) Kurz, Indian Forester 1(4): 345, 1876 var. *nigrociliata*

Bambusa nigrociliata Buse, Pl. Jungh. 389. 1854 (as “Nigro-ciliata”). Type: “Habitat insulam Javae Prope Tjiberem”; *Junghuhn s.n.*

Oxytenanthera nigrociliata (Buse) Munro, Trans. Linn. Soc. London 26(1): 228. 1868 (as “nigro-ciliata”)

Distribution. Andaman and Nicobar Islands, Kerala, cultivated [Myanmar]. Native to Indonesia.

Habit. Woody perennial.

Remarks. Taxonomic editor Clark notes that Seethalakshmi and Kumar (1998) consider this to be a synonym of *Gigantochloa rostrata*, but other treatments maintain it as a species. Ohrnberger (1999) indicates that it occurs in the “eastern, central, and north-eastern parts” of India in addition to the Andamans. Dransfield and Widjaja (1995) list *G. nigrociliata* as doubtful for India, suggesting that the Indian records refer to other species. The status of the species and the following variety both need reevaluation in India and generally.

105. *Gigantochloa nigrociliata* (Buse) Kurz var. *hohenackeri* (Fischer) H. B. Naithani, Fl. Pl. India, Nepal & Bhutan 514. 1990

Oxytenanthera nigrociliata (Buse) Munro var. *hohenackeri* Fischer, Kew Bull. 1935:96. 1935

Distribution. Karnataka. Overall occurrence not understood well.

Habit. Woody perennial.

Remarks. Record for Karnataka fide Naithani (1990).

106. *Gigantochloa parvifolia* (Brandis ex Gamble) T.Q. Nguyen, Bot. Zhurn. 75(2): 224. 1990

Pseudoxytenanthera parvifolia (Brandis ex Gamble) T.Q. Nyugen, Bot. Zurn. (Moscow and Leningrad) 76(7): 993. 1991

Oxytenanthera parvifolia Brandis ex Gamble, Ann. Roy. Bot. Gard. (Calcutta) 7: 72. t. 63. 1896. Type: Burma: Yonzalin Valley; March, 1880; *D. Brandis s.n.*

Distribution. Assam, Mizoram [Myanmar]. Cultivated.

Habit. Woody perennial.

Remarks. Records for Assam and Mizoram fide Naithani (1990).

107. *Gigantochloa pseudoarundinacea* (Steud.) Widjaja, Reinwardtia 10(3): 305. 1987

Bambusa pseudoarundinacea Steud., Syn. Pl. Glumac. 1: 330. 1854. Type: Indonesia: Java; *H. Zollinger* 3479 (L).

Bambusa verticillata Willd., Sp. Pl., ed. 4 [Willdenow] 2: 245. 1799

Gigantochloa verticillata (Willd.) Munro, Trans. Linn. Soc. London 26(1): 124. 1868

Nastus verticillatus (Willd.) Sm., Cycl. (Rees) 24: n. 3. 1819

Distribution. West Bengal [Myanmar]. Known only in cultivation.

Habit. Woody perennial.

108. *Gigantochloa rostrata* K.M. Wong, Malaysian Forester 45(3): 349. 1982

Type. Malaya; October 15, 1980; *K.M. Wong KEP FRI 28981* (L).

Distribution. Andaman and Nicobar Islands, Assam, Bihar, Karnataka, Madhya Pradesh, Maharashtra, Meghalaya, Odisha, Tripura [Bangladesh]. Known only in cultivation.

Habit. Woody perennial.

Remarks. Taxonomic editor Clark notes that “Kumari and Singh (2014) synonymize *G. nigrociliata* under this species, and in the discussion mention the *G. nigrociliata* of Widjaja. This needs to be addressed, as noted under *G. nigrociliata*.”

109. *Gigantochloa tekserah* E.G. Camus, Bamb. 141. 1913

Type. Garo Hills; 1889; *G. Mann s.n.* (?).

Distribution. Meghalaya.

Habit. Woody perennial.

Remarks. Taxonomic editor Clark notes that this species is not mentioned by Kumari and Singh (2014), and furthermore, that this name is treated as a synonym of *Gigantochloa macrostachya* by Vorontsova et al. (2016).

***Melocalamus* Benth. in Benth. & J.D. Hooker, Gen. Pl. 3, 2: 1095, 1212. 1883**

Type. *Melocalamus compactiflorus* (Kurz) Benth. (*Pseudostachyum compactiflorum* Kurz).

110. *Melocalamus compactiflorus* (Kurz) Benth., Gen. Pl. (Bentham & Hooker f.) 3: 1212. 1883

Pseudostachyum compactiflorum Kurz, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 42: 252. 1873. Type: ?

Dinochloa compactiflora (Kurz) McClure, Bull. Misc. Inform. Kew 1936: 253. 1936

Distribution. Arunachal Pradesh, Assam, Manipur, Meghalaya, Mizoram, Nagaland, Tripura [Bangladesh, China, Myanmar].

Habit. Woody perennial.

111. *Melocalamus indicus* R.B. Majumdar, Bull. Bot. Surv. India 25(1–4): 236. 1985 (“1983”)

Dinochloa indica (R.B. Majumdar) Bennet, Van Vigyan 27(2): 121. 1989

Type. India: Cachar, Bhuban Hills; *Majumder* 73083 (CAL).

Distribution. Assam, Manipur.

Habit. Woody perennial.

Remarks. Records for India fide Naithani (1990).

112. *Melocalamus mastersii* (Munro) R.B. Majumdar, in S. Karthikeyan et al., Fl. Ind. ser. 4, 1 (Monocotyledon): 278. 1989

Bambusa mastersii Munro, Trans. Linn. Soc. London 26(1): 113. 1868. Type: India: Assam, Dibrughur; *Masters* 1123

Melocalamus gracilis R.B. Majumdar in S. Karthikeyan et al., Fl. Ind. ser. 4, 1 (Monocotyledon): 278. 1989. Type: India: Barail Range, near Kailana, 9 km from Gumri rest house on Shillong, Cachar Road near P.W.D. Shed; *R.B. Majumdar* 1138 (CAL).

Dinochloa gracilis (R.B. Majumdar) Bennet & Jain ex D.N. Tewari, Monogr. Bamboo 82. 1992.

Distribution. Assam.

Habit. Woody perennial.

***Melocanna* Trin. in K.P.J. Sprengel, Neue Entdeck. Pflanzenk. 2: 43. 1820 (sero) (“1821”)**

Type. *Melocanna bambusoides* Trin., *nom. illeg.* (*Bambusa baccifera* Roxb.; *Melocanna baccifera* (Roxb.) Kurz).

113. *Melocanna baccifera* (Roxb.) Kurz, Prelim. Rep. Forest Pegu App. B: 94. 1875, *nom. cons.*

Bambusa baccifera Roxb., Pl. Coromandel 3: 37, t. 243. 1795. Lectotype: *Roxburgh, Icones* 1401 (K). LT designated by Stapleton in *Edinburgh J. Bot.* 51: 27. 1994.

Distribution. Assam, Karnataka, Maharashtra, Manipur, Meghalaya, Mizoram, Sikkim, Tripura, West Bengal [Bangladesh, China, Pakistan].

Habit. Woody perennial.

114. *Melocanna clarkei* (Gamble ex Brandis) P. Kumari & P. Singh, Nelumbo 51: 234. 2009

Arundinaria clarkei Gamble ex Brandis, Indian Trees 666. 1906 (Note: considered to be an invalid name *fide* Stapleton, 1994).

Neomicrocalamus clarkei (Gamble ex Brandis) R.B. Majumdar in S. Karthikeyan et al., Fl. Ind. ser. 4, 1 (Monocotyledon): 279. 1989

Racemobambos clarkei (Gamble ex Brandis) M. Kumar, Bamboos of India, Compendium 230. 1998

Schizostachyum mannii R.B. Majumdar in S. Karthikeyan et al., Fl. Ind. ser. 4, 1 (Monocotyledon) 281. 1989. Type: India: Jowai, Khasia & Jaintia Hills; *G. Mann* 31982 (CAL).

Bambusa khasiana sensu Gamble, Ann. Roy. Bot. Gard. (Calcutta) 7: 39. t. 37. 1896, non Munro, 1868.

Distribution. Assam, Meghalaya Manipur, Sikkim.

Habit. Woody perennial.

Remarks. Record for Manipur *fide* Naithani (1990). Taxonomic editor Clark notes that *S. mannii* has been synonymized with *M. clarkei* by Kumari and Singh (2014).

115. *Melocanna humilis* Kurz, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 42(4): 251. 1873, non Roep. ex Trin., 1822

Melocanna arundina C.E. Parkinson, Indian Forester 61: 326. 1935

Distribution. Assam, West Bengal [China, Myanmar, Thailand].

Habit. Woody perennial.

Remarks. Record for Assam *fide* Naithani (1990). Taxonomic editor Clark notes that “Kumari and Singh (2014) indicate that there are two species of *Melocanna*, *M. baccifera* and *M. clarkei*, and that both occur in Meghalaya, but they do not make any reference to *M. humilis*.”

***Neohouzeaua* A. Camus, Bull. Mus. Nation. Hist. Nat. Paris 28: 100. 1922**

Type. LT.: *Neohouzeaua mekongensis* A. Camus (*vide* McClure, Taxon 6: 206. 1957).

116. *Neohouzeaua dullooa* (Gamble) A. Camus, Bull. Mus. Hist. Nat. (Paris) 28: 101. 1922

Teinostachyum dullooa Gamble, Ann. Roy. Bot. Gard. (Calcutta) 7: 101. 1896 (as “dulloo”). Type: Burma: Katha District, Hawyaw Monastery Garden; February, 1892; *Oliver s.n.* (K).

Schizostachyum dullooa (Gamble) R.B. Majumdar in S. Karthikeyan et al., Fl. Ind. ser. 4, 1 (Monocotyledon): 281. 1989

Distribution. Assam, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim, Uttarakhand, West Bengal [Bangladesh, Bhutan, Myanmar].

Habit. Woody perennial.

117. *Neohouzeaua helferi* (Munro) Gamble, Bull. Misc. Inform. Kew 1923: 91. 1923

Bambusa helferi Munro, Trans. Linn. Soc. London 26(1): 114. 1868. Type: Burma: Tenasserim; *Helfer 411*

Pseudostachyum helferi (Munro) Kurz, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 42: 253. 1872

Teinostachyum helferi (Munro) Gamble, Ann. Roy. Bot. Gard. (Calcutta) 7: 102. t. 90. 1896

Schizostachyum helferi (Munro) R.B. Majumdar in S. Karthikeyan, Fl. Ind. ser. 4, 1 (Monocotyledon): 281. 1989

Distribution. Arunachal Pradesh, Assam, Meghalaya [Myanmar].

Habit. Woody perennial.

***Neololeba* Widjaja, Reinwardtia 11(2): 112–113. 1997**

Type. *Neololeba atra* (Lindl.) Widjaja (*Bambusa atra* Lindl.).

118. *Neololeba atra* (Lindl.) Widjaja, Reinwardtia 11(2): 114. 1997.

Bambusa atra Lindl., Penny, Cyclop. 3: 357. 1835. Type: found in Amboyna

Bambusa lineata Munro, Trans. Linn. Soc. London 26(1): 118. 1868. Type: “Hab. in Ins. Ternate et Celebe. In Amboina exotica, Rumph.”

Distribution. Andaman and Nicobar Islands. Cultivated and perhaps also naturalized; native to New Guinea, the Moluccas and Sangihe Island and possibly also the Philippines.

Habit. Woody perennial.

Remarks. Taxonomic editor Clark notes that this name has many other synonyms in the literature; see Ohrnberger (1999) and Vorontsova et al. (2016).

***Neomicrocalamus* P.C. Keng, J. Bamboo Res. 2(2): 10. 1983**

Type. *Neomicrocalamus prainii* (Gamble) Keng f. (*Microcalamus prainii* Gamble). Substitute name for *Microcalamus* J.S. Gamble 1890, non A.R. Franchet 1889.

119. *Neomicrocalamus andropogonifolius* (Griff.) Stapleton, Edinburgh J. Bot. 51(3): 325. 1994

Bambusa andropogonifolia Griff., Itin. Pl. Khasyah Mts. 124. 1848. Type: Bhutan, Tashigang District, Diri Chhu, [27°10'N, 91°26'E], alt. 3600 ft.; *Griffith Itin 417* (K).

Distribution. Nagaland [Bhutan].

Habit. Woody perennial.

120. *Neomicrocalamus prainii* (Gamble) Keng f., J. Bamboo Res. 2(2): 10. 1983

Microcalamus prainii Gamble, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 59(2): 207. pl. 7. 1890. Type: India: Assam, Naga Hills, 8300 ft.; April 23, 1886; *Prain s.n.* (K).

Arundinaria prainii (Gamble) Gamble, Ann. Roy. Bot. Gard. (Calcutta) 7: 21. t. 19. 1896

Racemobambos prainii (Gamble) Keng f. & T.H. Wen, J. Bamboo Res. 5(2): 13. 1986

Distribution. Arunachal Pradesh, Assam, Meghalaya, Nagaland [China].

Habit. Woody perennial.

***Ochlandra* Thwaites, Enum. Pl. Zeyl. (Thwaites). 376. 1864**

Type. *Ochlandra stridula* Thwaites.

121. *Ochlandra beddomei* Gamble, Ann. Roy. Bot. Gard. (Calcutta) 7: 124. t. 110. 1896

Type. India: Wynaad; *Beddome s.n.*

Distribution. Kerala, Tamil Nadu.

Habit. Woody perennial.

122. *Ochlandra ebracteata* Raizada & Chatterjee, Indian Forester 89(5): 362. 1963

Type. India: Kerala, Parithipally range, Kottur reserve, Trivandrum division; June 28, 1961; *Managing Agents, Punalur Paper Mills s.n.* (DD).

Distribution. Kerala, Tamil Nadu.

Habit. Perennial.

Remarks. Record for Kerala fide Naithani (1990).

123. *Ochlandra keralensis* M. Kumar, Remesh & Sequiera, J. Econ. Taxon. Bot. 25(1): 49–51. f. 1(A–N). 2001

Type. India: Kerala, Pathanamthitta District, Pachakkanam, 3200 ft.; December 9, 1998; *Remesh; Stephen 20730* (KFRI).

Distribution. Kerala.

Habit. Woody perennial.

124. *Ochlandra scriptoria* (Dennst.) C.E.C. Fisch., Fl. Madras 3(10): 1863. 1934

Bambusa scriptoria Dennst., Schlusel Hort. Malab. 31. 1818. Type: Rheede, Hortus. Malab. 3. t. 60 as “Beesha”

Beesha rheedii Kunth, Enum. Pl. 1: 434. 1833. Type: Rheede, Hortus. Malab. 5. 119. t. 60 as “Beesha”

Ochlandra rheedii (Kunth) Benth. & Hook. f. ex Gamble, Ann. Roy. Bot. Gard. (Calcutta) 7: 121. t. 107. 1896

Distribution. Karnataka, Kerala, Tamil Nadu.

Habit. Woody perennial.

125. *Ochlandra setigera* Gamble, Ann. Roy. Bot. Gard. (Calcutta) 7: 128. t. 115. 1896

Type. India: western slopes of Nilgiri Hills, Gudalur, alt. 3000 ft.; *H. Trimen s.n.*

Distribution. Kerala, Tamil Nadu.

Habit. Woody perennial.

126. *Ochlandra sivagiriana* (Gamble) E.G. Camus, *Bambusees* (Camus) 181. t. 99. f. c. 1913

Ochlandra rheedii Benth. ex Gamble var. *sivagiriana* Gamble, Ann. Roy. Bot. Gard. (Calcutta) 7: 122. t. 108. 1896. Syntypes: India: Sivagiri Hills, 4000–4500 ft.; Gamble s.n. (K). Pulney Hills, alt. 1300–1400 ft.; 1873; *Beddome* s.n.
Ochlandra scriptoria (Dennst.) Fisch. var. *sivagiriana* (Gamble) C.E.C. Fisch., Fl. Madras 3: 1863. 1934

Distribution. Kerala, Tamil Nadu.

Habit. Woody perennial.

127. *Ochlandra soderstromiana* M. Kumar & Sequiera, *Rheedea* 9(1): 33. f. 2. 1999

Type. India: Kerala, Idukki District, Kallar, Kallar Valley Estate, alt. 3200 ft.; June 15, 1998; *Stephen Sequiera* 008883 (KFRI).

Distribution. Kerala.

Habit. Woody perennial.

128. *Ochlandra spirostylis* M. Kumar, K.K. Seethal. & Sequiera, *Rheedea* 9(1): 31–33. 1999

Type. India: Kerala, Idukki District, Adimali, Chattuparakudy, 3000 ft.; May 30, 1998; *Stephen Sequiera* 008884 (KFRI).

Distribution. Kerala.

Habit. Woody perennial.

129. *Ochlandra talbotii* Brandis, *Indian Trees* 684. 1906 (as “talboti”)

Type. India: North Kanara; *Brandis* s.n.

Distribution. Karnataka.

Habit. Woody perennial.

130. *Ochlandra travancorica* (Bedd.) Benth. ex Gamble, Ann. Roy. Bot. Gard. (Calcutta) 7: 125. t. 111. 1896 var. *travancorica*

Beesha travancorica Bedd., Forester's Man. Bot. 234. 1873. Type: India: Mountains of Tinnevely and Travancore, alt. 3000–5000 ft., Madras; *Beddome* s.n.

Distribution. Karnataka, Kerala, Tamil Nadu [Sri Lanka].

Habit. Woody perennial.

131. *Ochlandra travancorica* (Bedd.) Benth. ex Gamble var. *hirsuta* Gamble, Ann. Roy. Bot. Gard. (Calcutta) 7: 126. t. 112. 1896

Type. India: Travancore Hills; *Beddome s.n.*

Distribution. Kerala.

Habit. Woody perennial.

132. *Ochlandra wightii* (Munro) C.E.C. Fisch., Fl. Madras 3(10): 1864. 1934

Bambusa wightii Munro, Trans. Linn. Soc. London 26(1): 111. 1868. Syntypes: India: Courtallum; *Wight 1009*. Malabar; *Wight 117*, *Wight 1346*.

Ochlandra brandisii Gamble, Ann. Roy. Bot. Gard. (Calcutta) 7: 126. t. 113. 1896.

Type: India: Tinnevely Ghats, Courtallum, alt. 3000 ft.; 1835; *Wight 1009*

Distribution. Kerala, Tamil Nadu.

Habit. Woody perennial.

Remarks. *Ochlandra kadambaranii*. Taxonomic editor Clark suggests that the name *Ochlandra kadambaranii*, for which UmaShaanker et al. (2004) provide a distribution map, is probably a *nomen nudum*, but this needs to be checked.

***Oxytenanthera* Munro, Trans. Linn. Soc. London 26(1): 126. 1868**

Lectotype. *Oxytenanthera abyssinica* (A. Rich.) Munro (*Bambusa abyssinica* A. Rich.). LT designated by McClure in Taxon 6: 206. 1957.

133. *Oxytenanthera abyssinica* (A. Rich.) Munro, Trans. Linn. Soc. London 26(1): 127. 1868

Bambusa abyssinica A. Rich., Tent. Fl. Abyss. 2: 439. 1850–1851. Syntypes: Ethiopia: near Djeladjerranne [Tchelatchekanne]; December 15, 1839; *G.H.W. Schimper s.n. [501]* (P). Ethiopia: Banks of R. Tacazze; *Quartin Dillon & Petit s.n.* (P). Ethiopia: Aderbati; *Quartin Dillon & Petit s.n.* (P).

Distribution. Uttarakhand. Cultivated; native to tropical Africa.

Habit. Woody perennial.

Pseudobambusa* Nguyen, Bot. Zurn. 76(7): 992. 1991*Type.** *Pseudobambusa kurzii* (Munro) Ohrnb.**134. *Pseudobambusa kurzii* (Munro) Ohrnb., Bamb. World Introd. Ed. 4: 19. 1997***Melocanna kurzii* Munro, Trans. Linn. Soc. London 26(1): 134. 1868. Type: India: Andaman Island; *Kurz s.n.**Bambusa kurzii* (Munro) N.P. Balakr., Bull. Bot. Surv. India 22(1–4): 176. 1982 (“1980”)*Schizostachyum kurzii* (Munro) R.B. Majumdar in S. Karthikeyan, Fl. Ind. ser. 4, 1 (Monocotyledon): 281. 1989*Bambusa schizostachyoides* Kurz in Gamble, Ann. Roy. Bot. Gard. (Calcutta) 7: 48, t. 44. 1896, nom. superfl. & illeg.*Teinostachyum schizostachyoides* Kurz, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 39: 89. 1870, nom. superfl. & illeg.*Cephalostachyum schizostachyoides* Kurz, Prelim. Rep. Forest Pegu Append. App. B. 94., in clavi, A. A., 137, 1875, nom. superfl. & illeg.**Distribution.** Andaman and Nicobar Islands, Manipur [Myanmar, Vietnam].**Habit.** Woody perennial.**Remarks.** Taxonomic editor Clark observes that Manipur seems unlikely to be part of the native range, since this species is native to the southern part of Myanmar and also the southern part of Vietnam, as well the Andamans.***Pseudostachyum* Munro, Trans. Linn. Soc. London 26: 141. 1868****Type.** *Pseudostachyum polymorphum* Munro.**135. *Pseudostachyum polymorphum* Munro, Trans. Linn. Soc. London 26(1): 142. t. 4. 1868***Schizostachyum polymorphum* (Munro) R.B. Majumdar in S. Karthikeyan et al., Fl. Ind. ser. 4, 1 (Monocotyledon): 282. 1989**Lectotype.** India: Assam, Nigrigam; January 18, 1836; *Griffith 6735* (K). LT designated by Stapleton in Edinburgh J. Bot. 51: 30. 1994.**Distribution.** Arunachal Pradesh, Assam, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim, West Bengal [Bhutan, China, Myanmar, Nepal].**Habit.** Woody perennial.

***Pseudoxytenanthera* Soderstr. & R.P. Ellis, *Smithsonian Contr. Bot.* 72: 52. 1988**

Type. *Pseudoxytenanthera monadelpha* (Thwaites) Soderstr. & R.P. Ellis (*Dendrocalamus monadelphus* Thwaites).

136. *Pseudoxytenanthera bourdillonii* (Gamble) H.B. Naithani, *J. Bombay Nat. Hist. Soc.* 87: 440. 1991 (“1990”)

Oxytenanthera bourdillonii Gamble, *Ann. Roy. Bot. Gard. (Calcutta)* 7: 76. 1896 (as “bourdilloni”). Type: “Western Ghats of Travancore, grows only on steep precipitous places and wet rocks at elevations of 3000–4000 ft.”; *J.F. Bourdillon s.n.*

Distribution. Kerala.

Habit. Woody perennial.

137. *Pseudoxytenanthera monadelpha* (Thwaites) Soderstr. & R.P. Ellis, *Smithsonian Contr. Bot.* 72: 52. 1988

Dendrocalamus monadelphus Thwaites, *Enum. Pl. Zeyl.* 5: 376. 1864. Lectotype: Sri Lanka: Ambagamuwa; December, 1854; *Thwaites C.P.* 3359 (PDA). LT designated by Soderstrom and Ellis in *Smithsonian Contr. Bot.* 72: 52. 1988.

Distribution. Andhra Pradesh, Karnataka, Kerala, Tamil Nadu [Sri Lanka].

Habit. Woody perennial.

138. *Pseudoxytenanthera ritcheyi* (Munro) H.B. Naithani, *J. Bombay Nat. Hist. Soc.* 87(3): 440. 1991 (“1990”)

Bambusa ritcheyi Munro, *Trans. Linn. Soc. London* 26(1): 113. 1868. Type: India: Bombay, Kala Nuddi; *Ritchie* 820

Distribution. Andhra Pradesh, Karnataka, Kerala, Maharashtra, Tamil Nadu.

Habit. Woody perennial.

139. *Pseudoxytenanthera stocksii* (Munro) H.B. Naithani, *J. Bombay Nat. Hist. Soc.* 87(3): 440 1991 (“1990”)

Oxytenanthera stocksii Munro, *Trans. Linn. Soc. London* 26(1): 130. 1868. Type: India: Concan; *Stocks s.n.*

Dendrocalamus stocksii (Munro) M. Kumar, Remesh & Unnikr. Sida 21(1): 95. 2004

Distribution. Goa, Karnataka, Kerala, Maharashtra [also in Vietnam]. Cultivated, or perhaps also native.

Habit. Woody perennial.

Schizostachyum Nees, Fl. Bras. Enum. Pl. 2(1): 535. 1829

Type. *Schizostachyum blumei* Nees.

140. *Schizostachyum brachycladum* (Kurz ex Munro) Kurz, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 39(2): 89. t. 6. f. 2. 29. 1870

Melocanna zollingeri (Steud.) Kurz ex Munro var. *brachyclada* Kurz ex Munro, Trans. Linn. Soc. London 26(1): 134. 1868

Schizostachyum zollingeri Steud., Syn. Pl. Glumac. 1: 332. 1854. Type: Java

Distribution. West Bengal [also in Indonesia, Malaysia, Philippines, Singapore]. Probably only cultivated in India.

Habit. Woody perennial.

141. *Schizostachyum rogersii* Brandis, Indian Trees 679. 1906

Type. India: Andamans; *G. Rogers s.n.*

Distribution. Andaman and Nicobar Islands, Assam, Nagaland.

Habit. Woody perennial.

Remarks. Taxonomic editor Clark notes that Seethalakshmi and Kumar (1998) consider this species to be endemic to the Andamans, suggesting that the mainland records refer to cultivated plants or are erroneous.

142. *Schizostachyum virgatum* (Munro) H.B. Naithani & Bennet, Indian Forester 117(1): 68. 1991

Melocanna virgata Munro, Trans. Linn. Soc. London 26(1): 133. 1868. Type: Hab. in India or Burmah, Keouksik ad fluv. Mogong; *Griffith s.n.* (K).

Cephalostachyum virgatum (Munro) Kurz, Prelim. Rep. Forest Pegu App. A 137: 1875

Distribution. India, cultivated [China, Myanmar].

Habit. Woody perennial.

***Stapletonia* P. Singh, S.S. Dash, & P. Kumari, *Nelumbo* 51: 241. 2009**

Type. *Stapletonia arunachalensis* (H.B. Naithani) P. Singh, S.S. Dash & P. Kumari (*Schizostachyum arunachalense* H.B. Naithani).

143. *Stapletonia arunachalensis* (H.B. Naithani) P. Singh, S.S. Dash & P. Kumari, *Nelumbo* 51: 241. 2009

Schizostachyum arunachalensis H.B. Naithani, *Indian Forester* 118(3): 230. 1992.
Type: India: Arunachal Pradesh: Subansiri District, Baja near Daporijo, 300 m; 17.3.1986; *H.B. Naithani 1406* (holotype, DD).

Distribution. Arunachal Pradesh.

Habit. Woody perennial.

144. *Stapletonia rigoensis* L. B. Singha, P. Niri, & R. Devi, *Phytotaxa* 350(1): 82. 2018

Type. India: Arunachal Pradesh, Near Rigo village, 400 – 500 m, 001/LBS/2017 (holotype: ASSAM).

Distribution. Arunachal Pradesh.

Habit. Perennial

145. *Stapletonia seshagiriana* (R.B. Majumdar) H.B. Naithani, *Indian Forester* 139: 1048. 2013

Schizostachyum seshagirianum R.B. Majumdar in S. Karthikeyan et al., *Fl. Ind. ser. 4*, 1 (Monocotyledon): 282. 1989. Type: India: Arunachal Pradesh, Garsing to Eyo, Spiang, alt. 1900 ft.; *R.S. Rao 1794* (CAL).

Distribution. Arunachal Pradesh.

Habit. Woody perennial.

***Teinostachyum* Munro, *Trans. Linn. Soc. London* 26: 142. 1868**

Lectotype. *Teinostachyum griffithii* Munro (designated by McClure, *Taxon* 6: 209. 1957).

146. *Teinostachyum beddomei* C.E.C. Fisch., Fl. Madras 3(9): 1860. 1934

Schizostachyum beddomei (C.E.C. Fisch.) R.B. Majumdar in S. Karthikeyan, Fl. Ind. ser. 4, 1 (Monocotyledon): 281. 1989

Bambusa wightii Munro, Trans. Linn. Soc. London 26(1): 111. 1868. Syntypes: India; *R.H. Beddome* 117, 1009, 1346 (US-79430). Hab. in Ind. or. Courtallum; *Wight* 1009. India: Malabar; *Wight* 117. India; *Wight* 1346

Teinostachyum wightii (Munro) Bedd., Fl. Sylv. S. India t. 323. 1873

Type. Nilgiri and Travancore Hills, alt. 3000–5000 ft.

Distribution. Karnataka, Kerala, Tamil Nadu.

Habit. Woody perennial.

Remarks. Taxonomic editor Clark notes that the nomenclature here needs to be investigated and the type material studied. The name *B. wightii* has several syntypes and was based on vegetative material only, so it is unclear what species name really applies to although it appears to be validly published. In addition, *T. wightii* may be misapplied *vide* Ohrnberger (1999).

147. *Teinostachyum griffithii* Munro, Trans. Linn. Soc. London 26: 143, t. 3. 1868

Schizostachyum griffithii (Munro) R.B. Majumdar in S. Karthikeyan, Fl. Ind. ser. 4, 1 (Monocotyledon): 281. 1989

Type. Burma: Prope Wulloboom “in sylvis collinis”; *Griffith s.n.*

Distribution. Arunachal Pradesh, Assam, Meghalaya [Myanmar].

Habit. Woody perennial.

***Thyrsostachys* Gamble, Indian Forester 20: 1. 1894**

Type. *Thyrsostachys oliveri* Gamble.

148. *Thyrsostachys oliveri* Gamble, Indian Forester 20: 1. 1894

Type. “The bamboo was discovered by Mr. J.W. Oliver, conservator of forests of the eastern circle of Upper Burma and the photograph from the negative of which our picture has been obtained, was taken by him.” Burma; *J.W. Oliver s.n.*

Distribution. Arunachal Pradesh, Manipur, Uttar Pradesh, Uttarakhand, West Bengal [China, Myanmar].

Habit. Woody perennial.

Remarks. Taxonomic editor Clark notes that this species is cultivated in the Indian Botanical Garden, Calcutta and Forest Research Institute, Dehra Dun.

149. *Thyrsostachys siamensis* Gamble, Ann. Roy. Bot. Gard. (Calcutta) 7: 59–60. t. 51. 1896, nom. cons.

Bambusa regia Thomson ex Munro, Trans. Linn. Soc. London 26(1): 116. 1868 Lectotype: *Kurz s.n.* (K). LT designated by Stapleton in Taxon 47: 739. 1998.

Thyrsostachys regia (Thomson ex Munro) Bennet, Indian Forester 114(10): 711. 1988

Distribution. Uttarakhand, West Bengal [China, Myanmar]. Probably only cultivated in India.

Habit. Woody perennial.

Remarks. Taxonomic editor Clark notes that this species is cultivated in the Indian Botanical Garden, Calcutta and Forest Research Institute, Dehra Dun.

Subfamily Oryzoideae Kunth x Beilschm. (1833)

Plants perennial, generally herbaceous and with or without rhizomes or stolons. Spikelets with 2 glumes, or the glumes lacking. Flowers 3, the proximal two sterile and only the distal one fertile. Lemma with or without an awn. Lodicules 2. Fusoid cells absent or present, mesophyll cells with or without invaginated cell walls, midrib simple or complex.

Within Oryzoideae, Ehrharteae and Oryzeae are clearly sisters (e.g., (Kellogg 2009; Saarela et al. 2018; Tang et al. 2010)). Members of these two tribes have characteristic “oryzoid” silica bodies in the leaves. These are narrow and elongated perpendicular to the proximo-distal axis of the leaf and form over the veins, which is an unusual position for silica bodies (Metcalf 1960). Most species have a chromosome base number of $x = 12$. All Oryzeae and many Ehrharteae are plants of moist habitats, a character that may be ancestral (Kellogg 2015b).

In contrast to Ehrharteae and Oryzeae, the position of *Streptogyna* has long been controversial. However, recent phylogenetic work using complete plastomes places it sister to the Ehrharteae + Oryzeae clade (Saarela et al. 2018). It lacks the distinctive characters of the other two tribes having multi-flowered spikelets and lacking the distinctive silica bodies. Nuclear phylogenies place it sister to the BOP clade (Mathews et al. 2000) or to Bambusoideae (Hisamoto et al. 2008).

Taxonomic editor: G. Anthony Verboom, University of Cape Town

Tribe Ehrharteae Nevski, 1937

Ehrharteae has no obvious diagnostic character, although the simple vasculature in the midrib and lack of an epiblast in the embryo might be synapomorphic (Kellogg 2015b). The plants vary in habit, presence or absence of auricles in the leaves, and ligule morphology. Stamen number also varies, with individual species having 2, 3, 4, or 6 stamens. This character has been used in the past to segregate genera from *Ehrharta* but phylogenetic studies (Verboom et al. 2003) show that all species are best placed in a single genus.

***Ehrharta* Thunb., Kongl. Vetensk. Acad. Handl. 40: 217. t. 8. 1779, nom. cons.**
[incl. *Microlaena* R. Br., *Tetrarrhena* R. Br., *Zotovia* Edgar & Connor]

Type. *Ehrharta capensis* Thunb.

150. *Ehrharta abyssinica* Hochst., Flora 38: 193. 1855

Ehrharta erecta Lam. var. *abyssinica* (Hochst.) Pilg., Notizbl. Bot. Gart. Berlin-Dahlem 9(87): 508. 1926. Type: Abyssina; *Buchinger 1460*

Type. Abyssina [Ethiopia]; 1853; *Schimper, Hb. abyss. Buchinger 1460* (STR).

Distribution. Tamil Nadu, presumably naturalized. Native to Africa.

Habit. Perennial.

Remarks. Taxonomic editor Verboom notes that this species may or may not be distinct from *E. erecta*, and might be treated better as a variety of that species.

151. *Ehrharta calycina* Sm., Pl. Icon. Ined. 2: t. 33. 1790

Trochera calycina (Sm.) P. Beauv., Ess. Agrostogr. 62. t. 12 f. 4. 1812

Ehrharta auriculata Steud., Flora 12: 491. 1829

Melica geniculata Thunb., Prodr. Pl. Cap. 1: 21. 1794. Type: Promontorio Bonae Spei Africas. [South Africa: Cape of Good Hope]; *Thunberg s.n.*

Ehrharta geniculata (Thunb.) Thunb., Prodr. Pl. Cap. 2: 192. 1800

Ehrharta ovata Nees, Linnaea 7: 336. 1832. Type: "Sandige Flache unter dem Tigerberge bei Duiker vallei."; *Ecklon s.n.*

Ehrharta paniculata Poir., Encycl. (Lamarck) Suppl. 2: 542. 1812

Ehrharta adscendens Schrad. ex Schult. & Schult. f., Syst. Veg., ed. 15 bis [Roemer & Schultes] 7(2): 1372. 1830 pro syn.

Ehrharta undulata Nees ex Trin., Mém. Acad. Imp. Sci. Saint-Pétersbourg, Sér. 6, Sci. Math., Seconde Pt. Sci. Nat. 5, 3(3): 70. 1839, nom. nud., pro syn.

Melica festucoides Licht. ex Trin., Mém. Acad. Imp. Sci. Saint-Pétersbourg, Sér. 6, Sci. Math., Seconde Pt. Sci. Nat. 5, 3(3): 70. 1839, pro syn. *Ehrharta calycina* Sm.

Ehrharta mnemateia Thunb., Prodr. Pl. Cap. 1: 66. 1794, non L.f., 1782. Type: Africa; *Thunberg s.n.*

Ehrharta laxiflora sensu Schult. & Schult. f., Syst. Veg., ed. 15 bis [Roemer & Schultes] 7(2): 1373. 1830, non Schrad., 1821

Aira capensis L.f., Suppl. Pl. 108. 1782 ("1781"), non *Ehrharta capensis* Thunb., 1779. Type: "Habitat ad Cap. Bonae spei, Sparrmann."

Distribution. India. Naturalized, but state localities not reported. Native to Africa, and also naturalized in Australasia, South America.

Habit. Annual or perennial.

152. *Ehrharta capensis* Thunb., Kongl. Vetensk. Acad. Handl. 40: 217. t. 8. 1779

Ehrharta mnemateia L.f., Suppl. Pl. 209. 1782 (“1781”). Type: “Habitat in Africa.”
D.D. Thunberg s.n.

Ehrharta nutans Lam., Encycl. (Lamarck) 2(1): 346. 1786, nom. superfl. & illeg. for *E. capensis*. Type: “Cette plante croit au Cap de Bonne-Esperance, & nous a été communiquée par M. Sonnerat, ainsi que celle qui fuit.”

Type. “Herr Ehrhart vistas nu I Hannover.”

Distribution. India. Naturalized, but state localities not reported. Native to Africa.

Habit. Perennial.

153. *Ehrharta erecta* Lam., Encycl. (Lamarck) 2(1): 347. 1786

Ehrharta panicea Sm., Pl. Icon. Ined. t. 9. 1789. Type: “Ex Capite Bonae Spei adtulit Sonnerat anno 1776.” *Sonnerat s.n.* (Herb. Thouin).

Ehrharta paniciformis Nees ex Trin., Mém. Acad. Imp. Sci. Saint-Pétersbourg, Sér. 6, Sci. Math., Seconde Pt. Sci. Nat. 5, 3(3): 64. 1839. Type: not given

Panicum deflexum Guss., Fl. Napol. 5: 320. 1835, nom. later hom., non Schumacher, 1827

Trochera panicea Baill., Hist. Pl. (Baillon) 12: 171, f. 313, 314. 1894, non (Sm.) Kuntze, 1891

Type. “Cette plante se trouve fans aucune etiquette dans la collection de Graminees que M. Sonnerat nous a communiquee; mais nous ne savons pas positivement si ell est du Cap, comme la precedente ou si elle est de l’Inde.”

Distribution. India. Naturalized, but state localities not reported. Native to southern Africa, and also naturalized in China.

Habit. Perennial.

154. *Ehrharta longiflora* Sm., Pl. Icon. Ined. 2: t. 32. 1790

Ehrharta aristata Thunb., Prodr. Pl. Cap. 1: 66. 1794. Type: Promontoria Bonae Spei Africes; 1772–1775; *Thurnberg s.n.*

Ehrharta eckloniana Schrad. ex Schult. & Schult. f., Syst. Veg., ed. 15 bis [Roemer & Schultes] 7(2): 1376. 1830. Type: "In Promont. b. spei, prope muros ad urbem Cap, *Ecklon s.n.*"

Ehrharta longiseta Schrad., Gött. Gel. Anz. 3: 2078. 1821. Type: South Africa: Cape, Cape Good Hope; *Hesse s.n.*

Ehrharta urvilleana Kunth, Révis. Gramin. 1: 9. t. 6. 1829. Type: "Legit cel Dumont d'Urville in insula S. Helenae."

Ehrharta banksii J.F. Gmel., Syst. Nat., ed. 13[bis] 2: 549. 1791, nom. superfl & illeg? (cited Smith pl. ic. ined. p. 9)

Type. "Ad Prom. Bonae Spei legit Masson. Herb. Banks. Herb Lin. Ex eadem regione relata adest nescio quo lecta botanico."

Distribution. Reported for India. Apparently naturalized, but state localities not reported. Native to Africa.

Habit. Annual.

155. *Ehrharta stipoides* Labill., Nov. Holl. Pl. 1: 91, t. 118. 1805

Microlaena stipoides (Labill.) R. Br., Prodr. Fl. Nov. Holland. 210. 1810

Type. "Habitat in capite Van-Diemen." Australia: Tasmania, Capite van-Dieman; *Labillardière s.n.* (FI).

Distribution. Tamil Nadu [Sri Lanka]. Apparently naturalized. Likely native to Australia.

Habit. Perennial.

Tribe Oryzeae Dumort. (1824)

Plants annual or perennial. Leaves with a membranous ligule, with or without a pseudopetiole. Spikelets with the sterile flowers reduced to lemmas or lacking entirely. *Glumes reduced or absent. Midrib with two or more vascular bundles, with bundles placed ad- and abaxially, and often with air spaces.*

The distinctive midrib anatomy that is here interpreted as synapomorphic for the tribe is lost in *Luziola* and *Hygroryza* (Kellogg 2015b; Tateoka 1963). All members of the tribe grow in sites that are moist or regularly flooded, and a few are truly aquatic (Kellogg 2015b).

Hygroryza Nees, Edinburgh New Philos. J. 15: 380. 1833

Type. *Hygroryza aristata* (Retz.) Nees (*Pharus aristatus* Retz.).

156. *Hygroryza aristata* (Retz.) Nees, Edinburgh New Philos. J. 15: 380. 1833.

Pharus aristatus Retz., Observ. Bot. (Retzius) 5: 23. 1788 (“1789”). Type: “Habitat in Indiae aquosis.”

Leersia aristata (Retz.) Roxb., Fl. Ind. 2: 207. 1832.

Zizania aristata (Retz.) Kunth, Révis. Gramin. 1: 8. 1829

Potamochoa retzii Griff., J. Asiat. Soc. Bengal 5: 571. t. 24. 1836, nom. illeg. superfl.?

Zizania retzii Spreng., Syst. Veg. (ed. 16) [Sprengel] 2: 136. 1824 (“1825”), nom. superfl. & illeg. for *Pharus aristatus* Retz.

Distribution. Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Goa, Gujarat, Jammu and Kashmir, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Nagaland, Odisha, Rajasthan, Tamil Nadu, Tripura, Uttar Pradesh, West Bengal [Bangladesh, China, Myanmar, Nepal, Pakistan, Sri Lanka].

Habit. Aquatic perennial.

***Leersia* Sw., Prodr. (Swartz) 1, 21. 1788, nom. cons.**

Type. *Leersia oryzoides* (L.) Sw. (*Phalaris oryzoides* L.) (*typ. cons.*)

157. *Leersia hackelii* Keng, Sinensia 11: 412. 1940

Leersia oryzoides (L.) Sw. var. *japonica* Hack., Bull. Herb. Boissier 7: 645. 1899, non *Leersia japonica* Makino, 1892. Type: Coll. Matsum: Tokyo

Leersia oryzoides sensu Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 94. 1896, non (L.) Sw., 1788

Distribution. Jammu and Kashmir [China].

Habit. Perennial.

158. *Leersia hexandra* Sw., Prodr. (Swartz) 21. 1788

Asprella hexandra (Sw.) Roem. & Schult., Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 267. 1817

Leersia australis R. Br., Prodr. Fl. Nov. Holland. 1: 210. 1810. Type: “Designat vicinitatem Coloniae apud Portum Jackson, inclusis ripis aestuarii Hunter’s River vel Coal River nuncupati”; *Brown s.n.* (BM). *Littora* Novae Hollandiae intra tropicum; *R. Brown s.n.*

Asprella australis (R. Br.) Roem. & Schult., Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 267. 1817

- Leersia abyssinica* Hochst. ex A. Rich., Tent. Fl. Abyss. 2: 356. 1850–1851. Type: “Crescit in locis paludosis planitie montanae Chiré, mense Octobre, Schimp. no. 1823.” Ethiopia: Locis Paludosis in Planitie Montana, Provincia Schire; October 10, 1840; *W. Schimper 1823*
- Leersia capensis* C. Muell, Bot. Zeitung (Berlin) 14(20): 345. 1856. Type: South Africa “Prom. bonae spei, Uitenhagen”; 1847; *Alexander s.n.* (K)
- Leersia griffithiana* C. Muell, Bot. Zeitung (Berlin) 14(20): 345. 1856. Type: Bengal; *Griffith s.n.* (B?).
- Leersia luzonensis* J. Presl in C. Presl, Reliq. Haenk. 1(4–5): 207. 1830. Type: “Hab. in insula Luzonia.” Philippines: Luzonia; *Haenke s.n.*
- Leersia mauritanica* Salzm. ex Trin., Mém. Acad. Imp. Sci. Saint-Petersbourg, Sér. 6, Sci. Math. Seconde Pt. Sci. Nat. 5, 3(4): 174. 1840. Type: Egypt: Tingit; *Sieber s.n.* (M, Isotype).
- Leersia mexicana* Kunth, Nov. Gen. Sp. [H.B.K.] 1: 195 (ed. qto.). 1816. Type: “Crescit in convsalle Mexicana inter Chalco et Xochimilco, alt. 1168 hexap.” Mexico: Chalco, Xochimilco; *Humboldt & Bonpland s.n.* (P).
- Asprella mexicana* (Kunth) Roem. & Schult., Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 267. 1817
- Leersia parviflora* Desv., Opusc. Sci. Phys. Nat. 61. 1831. Type: “Crescit in Aegyptia.”
- Leersia triniana* Siebold ex Trin., Mém. Acad. Imp. Sci. Saint-Petersbourg, Sér. 6, Sci. Math., Seconde Pt. Sci. Nat. 5: 174. 1840, nom. invalid? (vide Tropicos)
- Oryza hexandra* (Sw.) Döll, Fl. Bras. (Martius) 2(2): 10–11. 1871
- Pharus ciliatus* Retz., Observ. Bot. (Retzius) 5: 23. 1788 (“1789”). Type: “Ad margines stagnorum lectum dedit honor Koenig.”

Type. Jamaica; *Swartz s.n.* (S).

Distribution. Andaman and Nicobar Islands, Andhra Pradesh, Assam, Bihar, Chhattisgarh, Himachal Pradesh, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Nagaland, Odisha, Rajasthan, Tamil Nadu, Tripura, Uttar Pradesh, West Bengal [Bangladesh, Bhutan, China, Myanmar, Nepal, Sri Lanka].

Habit. Perennial.

159. *Leersia oryzoides* (L.) Sw., Prodr. (Swartz) 21. 1788

Phalaris oryzoides L., Sp. Pl. 1: 55. 1753. Type: “Habitat in Virginiae paludibus nemorosis.” Lectotype: *Herb. Linn. No. 78.10* (LINN). LT designated by Hitchcock in Contr. U. S. Natl. Herb. 12: 115. 1908.

Leersia hackelii sensu Bor, Grasses Burma, Ceylon, India and Pakistan 599. 1960, non Keng., 1940

Distribution. Jammu and Kashmir [China, Pakistan]. Possibly naturalized in India.

Habit. Perennial.

***Oryza* L., Sp. Pl. 1: 333. 1753**

Type. *Oryza sativa* L.

160. *Oryza australiensis* Domin, Biblioth. Bot. 20 (Heft. 85): 333. 1915

Type. Nord Australien: Queensl.; *F.M. Bailey s.n.*

Distribution. India; states not reported [China]. Naturalized in both countries; native to Australia and New Zealand.

Habit. Perennial.

161. *Oryza barthii* A. Chev., Bull. Mus. Natl. Hist. Nat. 16(7): 405–406. 1911

Oryza breviligulata A. Chev. & Roehr., Compt. Rend. Hebd. Séances Acad. Sci. 159: 560. 1914

Type. *Chevalier 9615*; Chad.

Distribution. India. Naturalized, but state localities not reported. Native to Africa.

Habit. Annual.

162. *Oryza brachyantha* A. Chev. & Roehr., Compt. Rend. Hebd. Séances Acad. Sci. 159: 561. 1914

Syntypes. *Chevalier s.n.*; Sudan: western Sudan, Ségou; *Schweinfurth s.n.*; Egypt: pays des Djurs.

Distribution. India. Naturalized, but state localities not reported. Native to Africa.

Habit. Annual.

163. *Oryza coarctata* Roxb., Fl. Ind. (Roxburgh) 2: 206. 1832

Porteresia coarctata (Roxb.) Tateoka, Bull. Natl. Sci. Mus., Tokyo 8(3): 406. 1965

Sclerophyllum coarctatum (Roxb.) Griff., Not. Pl. Asiat. 3: 8. 1851

Oryza triticoides Griff., Not. Pl. Asiat. 3: 8. t. 142. f. 1. 1851

Type. India: Delta of the Gangas; 1796; *Buchanan-Hamilton s.n.*

Distribution. Andhra Pradesh, Karnataka, Odisha.

Habit. Perennial.

164. *Oryza glaberrima* Steud., Syn. Pl. Glumac. 1: 3. 1853**Type.** Guinea; *Jardin s.n.* (P).**Distribution.** Karnataka, Madhya Pradesh [China]. Naturalized in both countries; native to Africa.**Habit.** Annual.**Remarks.** Records for India fide Naithani (1990).**165. *Oryza grandiglumis* (Döll) Proehl., Bot. Arch. 1: 233. 1922***Oryza sativa* L. var. *grandiglumis* Döll, Fl. Bras. (Martius) 2(2): 8. 1871. Type: Brasilia: in valle Broco lectae; *Luschnath s.n.***Type.** Brasilien; *Riedel 1261*.**Distribution.** India. Naturalized, but state localities not reported. Native to South America; also naturalized in China.**Habit.** Annual.**166. *Oryza indandamanica* Ellis, Bull. Bot. Surv. India 27(1–4): 225. f. 1–7. 1987 (“1985”)****Type.** India: Andamans Island, Rutland Island; July 26, 1986; *Ellis PBL 12248A*.**Distribution.** Andaman and Nicobar Islands.**Habit.** Perennial.**167. *Oryza jeyporensis* Govindasw. & K.H. Krishnam., Sci. & Cult. 24: 234. 1956, nom. invalid.****Distribution.** Odisha.**Habit.** Not reported.**Remarks.** Protologue lacks Latin description.**168. *Oryza latifolia* Desv., J. Bot. Agric. 1: 77. 1813***Oryza sativa* L. var. *latifolia* (Desv.) Döll, Fl. Bras. (Martius) 2(2): 7. 1871**Type.** “Habitat in Carolina (error), insulaque Portorici.” Puerto Rico; *Desvaux s.n.* (P-Juss).

Distribution. Assam, Karnataka, Maharashtra, Sikkim [China].

Habit. Perennial.

169. *Oryza meyeriana* (Zollinger & Moritzi) Baill. ssp. *granulata* (Nees & Arn. ex G. Watt) Tateoka, Bot. Mag. (Tokyo) 75: 460. 1962

Oryza granulata Nees & Arn. ex G. Watt., Dict. Econ. Prod. India 5: 500. 1891. Syn-types: Sikkim, Assam, Burma, Bengal, Malabar, Courtallum; *Wight s.n.*, *Griffith s.n.*, *Simons s.n.*, *Hooker s.n.*, *Beddome s.n.*, *Kurz s.n.*, *Brandeis s.n.*

Oryza meyeriana (Zollinger & Moritzi) Baill. var. *granulata* (Nees & Arn. ex Watt) Duistermaat, Blumea 32: 185. 1987

Oryza meyeriana sensu C.E.C. Fisch., Fl. Madras 3(10): 1845. 1934, non Baill., 1894

Oryza indandamanica J.L. Ellis, Bull. Bot. Surv. Ind. 27: 225. 1985. Type: Andaman Islands, Rutland Is., 30 m alt., 26 Jul 1986; *PBL 12248* (Ellis)

Distribution. Assam, Bihar, Karnataka, Kerala, Odisha, Sikkim, Tamil Nadu, Tripura, Uttar Pradesh, West Bengal [China, Myanmar, Sri Lanka].

Habit. Perennial.

170. *Oryza minuta* J. Presl in C. Presl, Reliq. Haenk. 1(4–5): 208. 1830

Oryza manilensis Merr., Philipp. J. Sci., C. 3(4): 219. 1908. Type: Philippines: Luzon Island, Rizal Province; March, 1907; *M. Ramos BS 2194* (PNH).

Oryza latifolia sensu Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 92. 1896, non Desv., 1813

Type. Habitat in insula Luzonia.” Philippines: Luzon; *Haenke s.n.* (PR).

Distribution. Andhra Pradesh, Assam, Madhya Pradesh, Sikkim, Tamil Nadu [China, Myanmar, Nepal].

Habit. Perennial.

171. *Oryza nivara* Sharma & Shashtry, Indian J. Genet. Pl. Breed. 25: 161. 1965

Oryza sativa L. var. *fatua* Prain, Bengal Pl. 2: 1184. 1903, p.p. Type: India: “Orissa, Sundribuns; W. Bengal, N. Bengal.”

Distribution. Gujarat, Maharashtra, Madhya Pradesh.

Habit. Annual.

Remarks. Records for Gujarat and Maharashtra fide Naithani (1990).

172. *Oryza officinalis* Wall. ex G. Watt, Dict. Econ. Prod. India 5: 501. 1891 ssp. *officinalis*

Oryza latifolia sensu Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 92. 1896, non Desv.,

Oryza minuta sensu Bor, Grasses Burma, Ceylon, India & Pakistan 605. 1960, p.p., non J. Presl, 1830

Type. Numer. List [Wallich] no. 8685 and cited many syntypes.

Distribution. Andhra Pradesh, Assam, Bihar, Kerala, Madhya Pradesh, Maharashtra, Manipur, Odisha, Sikkim, Tamil Nadu [Bhutan, China, Myanmar, Nepal, Sri Lanka].

Habit. Perennial.

173. *Oryza malampuzhaensis* Krishnasw. & Chandras., Madras Agric. J. 45: 471. 1958

Oryza officinalis Wall. ex G. Watt ssp. *malampuzhaensis* (Krishnasw. & Chandras.) Tateoka, Bot. Mag. (Tokyo) 75: 422. 1962

Type. India: Madras.

Distribution. Andhra Pradesh, Kerala, Tamil Nadu.

Habit. Perennial.

Remarks. Record for Tamil Nadu fide Naithani (1990).

174. *Oryza rufipogon* Griff., Not. Pl. Asiat. 3: 5. t. 144. f. 2. 1851

Oryza sativa L. var. *rufipogon* (Giff.) G. Watt, Dict. Econ. Prod. India 5: 504. 1891

Oryza fatua Trin. var. *longiaristata* Ridl., Fl. Malay. Penin. 5: 252. 1925 (as “longearistata”). Type: Malaysia: Malacca, Batu Berendam; *Burkill s.n.*

Oryza sativa L. fo. *spontanea* Roshev., Bull. App. Bot. & Pl. 27: 37. 1931

Oryza sativa L. var. *coarctata* G. Watt, Dict. Econ. Prod. India 5: 504. 1891. Type: unknown locality; *Buchanan-Hamilton s.n.*

Oryza sativa L. var. *bengalensis* G. Watt, Dict. Econ. Prod. India 5: 504. 1891. Type: India, Bengal

Oryza sativa L. var. *abuensis* G. Watt, Dict. Econ. Prod. India 5: 504–505. 1891. Type: India: Bengal and Madras

Type. “Eastern part of Bengal, In aquis (Jheel dictis) prope Hubbegunge et Nubbegunge; October 1, 1835.” NT: Bangladesh; *Tim s.n.* (CAL). NT designated by Sharma and Shastry in Indian J. Genet. Pl. Breed. 25(20): 157–167. 1965.

Distribution. Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Chhattisgarh, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Nagaland, Odisha, Rajasthan, Tamil Nadu, Tripura, Uttar Pradesh [Bhutan, China, Myanmar, Nepal, Sri Lanka].

Habit. Perennial.

175. *Oryza sativa* L., Sp. Pl. 1: 333. 1753 var. *sativa*

Type. “Habitat forte in Aethiopia, colitur in Indiae paludosis.” Lectotype: *Herb. Linn. No. 460.1* (LINN). LT designated by Meikle in *Fl. Cyprus* 2: 1716. 1985.

Distribution. Andhra Pradesh, Assam, Bihar, Chhattisgarh, Delhi, Goa, Gujarat, Himachal Pradesh, Jharkhand, Kerala, Karnataka, Madhya Pradesh, Maharashtra, Odisha, Rajasthan, Tamil Nadu, Tripura, Uttar Pradesh, Uttarakhand, West Bengal [Bhutan, China, Myanmar, Nepal, Sri Lanka].

Habit. Annual.

176. *Oryza sativa* L. var. *plena* Prain, Bengal Pl. 2: 1184. 1903

Oryza plena (Prain) N.P. Chowdhury, *Indian Forester* 75(11): 497. 1949

Type. Bangladesh: Chittagong [Cultivated double rice].

Distribution. Andhra Pradesh, Assam, Bihar, Kerala, Madhya Pradesh, Nagaland, Punjab, Tamil Nadu, Tripura, Uttar Pradesh, West Bengal. [Bangladesh]

Habit. Annual.

Remarks. Records for Assam, Bihar, Kerala, Madhya Pradesh, Punjab, and Uttar Pradesh fide Naithani (1990).

***Zizania* L., Sp. Pl. 2: 991. 1753**

Lectotype. *Zizania aquatica* L. LT designated by Nash in *Ill. Fl. N. U.S.* (Britton & Brown), ed. 2. 1: 168. 1913, affirmed by Hitchcock, *Bull. U.S.D.A.* 772: 209. 1920

177. *Zizania latifolia* (Griseb.) Stapf, Bull. Misc. Inform. Kew 1909: 385. 1909

Hydropyrum latifolium Griseb., *Fl. Ross. (Ledeb.)* 4: 466. 1853. Type: “Hab. in Davuria in Lacu ad confluentiam fl. Schilka et Argun”; *Turcz. as Zizania latifolia Cat. Baikal no. 1337*.

Distribution. Manipur [China, Myanmar].

Habit. Perennial.

Remarks. Record for Manipur fide Naithani (1990).

Tribe Streptogyneae C.E. Hubb. ex C.E. Calderón & Soderstr. (1980)

Plants rhizomatous or caespitose. Leaf blades pseudopetiolate, with an abaxial ligule. Spikelets with several flowers, the distal ones reduced, disarticulating between the flowers. *Rachilla internode developing into a hook*. Style branches and stigmas 2 or 3, *elongating and twisting around each other at maturity, becoming indurate*.

***Streptogyna* P. Beauv., Ess. Agrostogr. 80. 1812**

Type. *Streptogyna crinita* P. Beauv.

178. *Streptogyna crinita* P. Beauv., Ess. Agrostogr. 80, t. 16. f. 8. 1812

Streptogyna gerontogaea Hook. f., Handb. Fl. Ceylon 5: 301. 1900 (as “streptogyne”).

Type: Sri Lanka; *Thwaites s.n. Ceylon Plant 922*

Type. Nigeria; 1786–1788; *Beauvois s.n.* (G).

Distribution. Kerala, Tamil Nadu [Sri Lanka].

Habit. Perennial.

Remarks. Record for Kerala fide Naithani (1990).

Subfamily Pooideae Benth., 1861

Plants annual or perennial, variously caespitose, rhizomatous or stoloniferous. Culms hollow. Leaf blades without a pseudopetiole, ancestrally lacking auricles; ligules membranous. Spikelets with 1 to many flowers, disarticulating above the glumes. Lodicules 2 not vascularized. Stigmas borne on separate style branches (i.e., style branches not fused).

Brachyelytrum is sister to all other Pooideae, with the remainder of the species having inflorescence branches initiating in a two-ranked pattern, the spikelets laterally compressed, the embryo lacking a scutellar cleft, and the embryonic leaf margins overlapping (Grass Phylogeny Working Group 2001; Kellogg et al. 2013; Saarela et al. 2015; Schubert et al. 2019a, 2019b). The next diverging tribe is Nardeae; all members of the large clade sister to Nardeae (i.e., the remainder of the subfamily) lack bicellular microhairs anywhere on the plant (Grass Phylogeny Working Group 2001). Parallel-sided subsidiary cells are synapomorphic for *Brachypodium* plus Bromeae, Triticeae, and Poeae (Grass Phylogeny Working Group 2001). A substantial increase in genome size occurred before the crown node of the clade Bromeae+ Triticeae+ Poeae, and nearly all members of the group have a chromosome base number of $x=7$ (Avdulov 1931; Bennetzen and Kellogg 1997; Kellogg and Bennetzen 2004).

Taxonomic editor: Robert J. Soreng, Smithsonian Institution, Washington, DC, with additional contributions for Stipeae by Paul M. Peterson, Smithsonian Institu-

tion, for *Agrostis* and *Calamagrostis* by Beata Paszko, Polish Academy of Sciences, and for *Poa* sect. *Stenopoa* by Marina V. Olonova, Tomsk State University.

Tribe Nardeae W. D. J. Koch, 1837

Perennial plants with leathery leaves. Lower glume absent or reduced to a narrow ridge; upper glume absent or minute. *Lodicules absent; stigma one*.

Lygeum Loefl. in C. Linnaeus, Gen. Pl. ed. 5. 27. 1754

Type. *Lygeum spartum* L.

179. *Lygeum spartum* L., Gen. Pl. ed. 5, addend. [p.”522”]. 1754

Type. “Habitat in Hispania.” Lectotype: *Loefling 36a, Herb. Linn. No. 75.1* (LINN). LT designated by Cope in Nasir and Ali (ed.), *Fl. Pakistan* 143: 39. 1982.

Distribution. Jammu and Kashmir [Pakistan].

Habit. Perennial.

Remarks. Distribution in India fide Naithani (1990). Taxonomic editor Soreng notes that the species is native to the Mediterranean, and was cultivated historically for fiber.

Tribe Phaenospermateae Renvoize & Clayton, 1985

Leaves with pseudopetiolate and resupinate blades, and long membranous, glabrous ligules. Spikelets 1-flowered, globose, disarticulating below the glumes. Rachilla extension absent.

Soreng et al. (2017), and taxonomic editor of subfamily Pooideae here, recognizes Phaenospermateae as distinct from Duthieae. The two tribes are sisters in molecular phylogenies and thus would be monophyletic whether combined or kept separate. *Phaenosperma* is morphologically distinctive and the combined tribe has no morphological synapomorphies. In contrast, Kellogg (2015b) combined Phaenospermateae with Duthieae, noting that they are sister taxa and that Phaenospermateae s.s. is monogeneric; thus recognition of Phaenospermateae offers no phylogenetic information. The decision whether to combine or separate the two tribes is a matter of ranking, for which there are no taxonomic rules.

Phaenosperma Munro ex Benth., J. Linn. Soc., Bot. 19: 59. 1881

Type. *Phaenosperma globosum* Munro ex Benth. (as “globosa”).

180. *Phaenosperma globosum* Munro ex Benth., J. Linn. Soc., Bot. 19: 59–60. 1881 (as “globosa”)

Type. “First received from the Jardin des Plantes at Paris where it had been raised from seeds brought from China by the Pere David, but it has since turned up among Shearer’s Kiu-Kaing plants.”

Distribution. Arunachal Pradesh, Assam, Sikkim [Bhutan, China].

Habit. Perennial.

Remarks. Records for Arunachal Pradesh and Sikkim fide Naithani (1990).

Tribe Duthieae Röser & Jul. Schneid., Syst. Biodivers. 9(1): 41. 2011.

Leaf blades neither pseudopetiolate, nor resupinate, ligules short and sometimes ciliate. Spikelets 1 to several flowered, disarticulating above the glumes. Rachilla extension present or absent. Lemma apex deeply 2-lobed, lobes acuminate or setaceous.

None of these morphological characters is synapomorphic.

***Duthiea* Hack., Verh. K.K. Zool.-Bot. Ges. Wien 45: 200. 1896**

Type. *Duthiea bromoides* Hack.

181. *Duthiea bromoides* Hack., Verh. K.K. Zool.-Bot. Ges. Wien 45: 200. 1896

Type. India: Kashmir, Liddar Valley, alt. 12000 ft.; *J.F. Duthie* 13155, 13382.

Distribution. Jammu and Kashmir [Pakistan].

Habit. Perennial.

***Pseudodanthonia* Bor & C.E. Hubb., Kew Bull. 1957: 425. 1958**

Type. *Pseudodanthonia himalaica* (Hook. f.) Bor & C.E. Hubb. (*Danthonia himalaica* Hook. f.)

182. *Pseudodanthonia himalaica* (Hook. f.) Bor & Hubbard, Kew Bull. 1957: 427. 1958

Danthonia himalaica Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 281. 1896. Type: India: Kunawar, Jaunsar, Lokardi Peak, alt. 8000–9000 ft.; *J.F. Duthie* 14467 (K).

Distribution. Himachal Pradesh, Uttar Pradesh.

Habit. Perennial.

***Sinochasea* Keng, J. Wash. Acad. Sci. 48(4): 115, f. 1. 1958**

Type. *Sinochasea trigyna* Keng.

183. *Sinochasea trigyna* Keng, J. Wash. Acad. Sci. 48(4): 115, f. 1. 1958

Trikeriaia oreophila Cope, Kew Bull. 42(2): 350. 1987. Type: Bhutan: Jangothang, 13350 ft [4069 m], 28 Sept. 1979; *Dunbar* 18

Distribution. Sikkim [Bhutan, China, Nepal].

Habit. Perennial.

Remarks. Record for Bhutan fide Naithani (1990).

Tribe Meliceae Link ex Endl., 1830

Most species perennial. *Leaf sheaths with margins fused up to the collar, the margins often joined by a hyaline membrane.* Glumes usually shorter than the florets. *Lemma margins papery above, the veins not converging at the apex. Lodicules thick, truncate, their margins partially or wholly fused.* Style branches 2, free to the base, *the branches persistent in the fruit.*

***Glyceria* R. Br., Prodr. Fl. Nov. Holland. 179. 1810, nom. cons.**

Type. *Glyceria fluitans* (L.) R. Br. (*Festuca fluitans* L.).

184. *Glyceria fluitans* (L.) R. Br., Prodr. Fl. Nov. Holland. 1: 179. 1810

Festuca fluitans L., Sp. Pl. 1: 75. 1753. Type: “Habitat in Europae fossis & paludibus.”
Lectotype: Herb. Linn. No. 92.22 (LINN). LT designated by Kit Tan in Davis (ed.), Fl. Turkey 9: 537. 1985.

Distribution. Meghalaya, Tamil Nadu [also in Africa, Europe, North America, South America]. Naturalized; native to Europe.

Habit. Perennial.

Remarks. Taxonomic editor Soreng notes that *Glyceria fluitans* is sometimes confused with *G. plicata* (= *G. notata* Chevall (Clayton et al. 2006 onwards)) and *G. distans*. Cope (1982) accepts *G. plicata* but this is *G. notata* (Clayton et al. 2006 onwards), and

these three are often confused. Based on the discussion and synonym in the Flora of China treatment (Tian 2006), it is likely that this record refers to *G. notata*, not *G. fluitans*.

185. *Glyceria spicata* Guss., Fl. Sicul. Syn. 2: 784. 1845

Poa spicata Biv. ex Guss., Fl. Sicul. Syn. 2: 784. 1845, nom. invalid. cited as synonym of *Glyceria spicata*, non L., 1753

Type. “In rivulis, stagnis, inundatis in Sicilia.”

Distribution. Tamil Nadu. Naturalized; native to southwestern Europe and northwestern Africa.

Habit. Perennial.

186. *Glyceria tonglensis* C.B. Clarke, J. Linn. Soc., Bot. 15: 119. 1876

Glyceria kashmiriensis Kelso, Rhodora 37: 262. 1935. Type: India: Jammu and Kashmir, Liddar Valley above Palgam, 8000–9000 ft.; September 17, 1893; *J.F. Duthie 13092* (US).

Type. India: Himalaya, between Darjeeling and Tonglo, “Mert. Koch. Proxima.”

Distribution. Assam, Himachal Pradesh, Jammu and Kashmir, Manipur, Sikkim, Tamil Nadu, Uttar Pradesh [Bhutan, China, Myanmar, Nepal].

Habit. Perennial.

***Koordersiochloa* Merr., Philipp. J. Sci., Bot. 12: 67. 1917**

Type. *Koordersiochloa javanica* Merr.

187. *Koordersiochloa sanjappae* (Kabeer & V.J. Nair) Veldkamp, Reinwardtia 13(3): 302. 2012

Streblochaete sanjappae Kabeer & V.J. Nair, Bull. Bot. Surv. India 47(1–4): 137 (–138, fig). 2006 (“2005”). Type: India: Tamil Nadu, Nilgiri District, Ooty, Dodabetta, about 4000 ft.; March, 4, 2002; *K. Althaf Ahamed Kabeer 114021* (MH).

Distribution. Tamil Nadu.

Habit. Perennial

Remarks. *Koordersiochloa* Merr. is the correct name for *Streblochaete* Hochst. ex Pilg. (Veldkamp 2012).

***Melica* L., Sp. Pl. 1: 66. 1753**

Lectotype. *Melica nutans* L. LT designated by Hitchcock, Bull. U.S.D.A. 772: 69. 1920.

188. *Melica nutans* L., Sp. Pl. 1: 66. 1753

Type. “Habitat in Europae frigidioris rupibus.” Proposed Conserved Type: Herb. Linn. No. 86.2 (LINN). Proposed type designated by Hempel in Jarvis (ed.), Taxon 41: 566. 1992.

Distribution. Jammu and Kashmir [China, Pakistan].

Habit. Perennial.

Remarks. Taxonomic editor Soreng notes that *Melica* was recently revised (Hempel 2011).

189. *Melica onoei* Franch. & Sav., Enum. Pl. Jap. 2: 603. 1878

Melica scaberrima (Nees) Hook. f. var. *micrantha* Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 331. 1896. Type: India: Kishtwar, alt. 6000 ft.; *C.B. Clarke s.n.*

Type. Japan: unde sine loci indicatione e botanico japonensi ono habuit; *Dr. Savatier s.n.*

Distribution. Jammu and Kashmir [China, Pakistan].

Habit. Perennial.

190. *Melica persica* Kunth, Révis. Gramin. 1: 122. 351. t. 89. 1830

Melica cupani Hook. f. var. *canescens* Regel, Descr. Pl. Nov. fasc. 8: 88. 1880. Type: Turkestan: in angustiis Basmandinsk; *O. Fedtschenko s.n.* (vide Tropicos)

Melica canescens (Regel) Lavrenko, Fl. URSS 2: 752. 1934

Melica cupani Guss. var. *vestita* (Boiss.) Boiss., Fl. Orient. (Boissier) 5: 591. 1884

Melica hohenackeri Boiss., Diagn. Pl. Orient. ser. 1, 1(13): 54. 1854. Type: “Hab. in districtu Talusch prov. transcaucasicae (Hochstetler).”

Melica inaequiglumis Boiss., Diagn. Pl. Orient. ser. 1, 1(7): 124. 1846. Type: Iran: “Hab. ad saxa prope urbem Schiraz, *Kotschy no. 315.*”

Melica jacquemontii Decne. in Jacquem., Voy. Inde. 4(3): 174–175. t. 175. 1844. Type: India: Kanum

Melica kotschyi Hochst. ex Steud., Syn. Pl. Glumac. 1: 289. 1854. Type: Kurdistan: Persia bor.; *Kotsch. Herb. alepp. no. 366*

Melica lanata Hochst. ex Steud., Syn. Pl. Glumac. 1: 289. 1854. Type: “In cacumine montis St. Catharinae Arab. herb. Arab. un. it 104”

Melica pannosa Boiss., Diagn. Pl. Orient. ser. 1, 2(13): 55. 1854. Type: "Hab. in rupibus calidis Antilibani ad Souk Wadi Barrada, legi Maio 1846."

Melica vestita Boiss., Diagn. Pl. Orient. ser. 1, 1(7): 125. 1846. Type: "Hab. in rupes-tribus alpis Kuh-Delu Persiae australis Kotschy no. 414."

Melica cupani auct. non Guss., 1832: Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 329. 1896, p.p.

Type. "Crescit in Persia inter Kermachan et Amadan."

Distribution. Jammu and Kashmir, Uttar Pradesh [Pakistan].

Habit. Perennial.

191. *Melica scaberrima* (Steud.) Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 330. 1896

Festuca scaberrima Steud., Syn. Pl. Glumac. 1: 316. 1854. Type: India; *Wight s.n.*

Glyceria scaberrima Nees, Syn. Pl. Glumac. 1: 287. 1854. Type: India: *Nees mpt. & Royle herb. no. 376*

Distribution. Himachal Pradesh, Jammu and Kashmir, Tamil Nadu, Uttar Pradesh [China, Nepal, Pakistan].

Habit. Perennial.

192. *Melica secunda* Regel, Trudy Imp. S.-Peterburgsk. Bot. Sada 7(2): 629. 1881

Melica gracilis Aitch. & Hemsl., J. Linn. Soc., Bot. 19: 192. 1882. Type: Afghanistan: Kuram District, in the Shend-Toi gorge, alt. 9000 ft.

Type. "In kokania inter Karakasuk et Schagimardan (O. Fedtschenko), in valle Afghanistaniae Kurrum (Aitchison no. 1257), in trajectu montium Alexander Karakia (A. Regel), in valle fluvii Almatinka majoris prope Wernoje (Kuschakewicz)."

Distribution. Jammu and Kashmir [China, Pakistan].

Habit. Perennial.

Remarks. Record for India fide Naithani (1990).

Tribe Stipeae Dumort., 1824

Caespitose perennials, the leaves generally stiff and slender. Spikelets one-flowered, the rachilla not extended beyond the flower. Glumes generally longer than the pubescent lemma; lemma generally wrapped around the palea, awned from the apex, the awn straight or twisted and often geniculate. Lodicules 3.

The tribe is monophyletic and the single flowered spikelet could be synapomorphic (Grass Phylogeny Working Group 2001; Kellogg 2015b). Generic limits are the subject of much ongoing research and extensive hybridization is likely (Romaschenko et al. 2008, 2010, 2011, 2012, 2014; Soreng et al. 2017).

***Achnatherum* P. Beauv., Ess. Agrostogr. 19, 146, pl. 6, f. 7. 1812**

Lectotype. *Agrostis calamagrostis* L. Designated by Niles & Chase, Contr. U.S. Natl. Herb. 24(6): 181 (1925).

193. *Achnatherum brandisii* (Mez) Z.L. Wu, Acta Phytotax. Sin. 34: 154. 1996

Stipa brandisii Mez, Repert. Spec. Nov. Regni Veg. 17: 207. 1921. Type: India: [Himachal Pradesh], Kulla; *D. Brandis s.n.* (B?; IT: US-866139 (fragm. ex B).

Distribution. Himachal Pradesh, Jammu and Kashmir, Uttar Pradesh [China, Nepal].

Habit. Perennial.

Remarks. Distribution in India fide Naithani (1990).

194. *Achnatherum duthiei* (Hook. f.) P.C. Kuo & S.L. Lu, Fl. Reipubl. Popularis Sin. 9(3): 322, pl. 80, f. 9–14. 1987

Stipa duthiei Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 232. 1896. Type: Western Himalaya, Garhwal, alt. 12000–13000 ft.; *Duthie 273*

Distribution. Jammu and Kashmir, Uttar Pradesh, Uttarakhand [Nepal].

Habit. Perennial.

195. *Achnatherum jacquemontii* (Jaub. & Spach) P.C. Kuo & S.L. Lu, Fl. Reipubl. Popularis Sin. 9(3): 323. 1987

Stipa jacquemontii Jaub. & Spach, Ill. Pl. Orient. 4: 60, t. 339. 1851. Type: “Ad rupes in excelsis Emodi Cachemyriani (altitudine circiter 9000 pedum) legit Jacquemont Augusto anni 1831 (Herb. Mus. Par.)” Kashmir: arid soils in rock crevices, 6400–14000 ft.; August 1831; *Jacquemont 994* (P).

Lasiagrostis jacquemontii (Jaub. & Spach) Munro ex Aitch., J. Linn. Soc., Bot. 18: 107. 1880

Lasiagrostis jacquemontii (Jaub. & Spach) Munro ex Boiss., Fl. Orient. [Boissier] 5: 506. 1884, nom. iso., non (Jaub. & Spach) Munro ex Aitch., 1880

Distribution. Himachal Pradesh, Jammu and Kashmir, Uttar Pradesh, Uttarakhand [China, Pakistan].

Habit. Perennial.

***Neotrinia* (Tzvelev) M. Nobis, P.D. Gudkova & A. Nowak, Turczaninowia 22(1): 40. 2019.**

Type. *Neotrinia splendens* (Trin.) M. Nobis, P.D. Gudkova & A. Nowak.

196. *Neotrinia splendens* (Trin.) M. Nobis, P.D. Gudkova & A. Nowak, Turczaninowia 22(1): 40. 2019.

Stipa splendens Trin., Neue Entdeck. Pflanzenk. 2: 54. 1821. Type: "Habitat in transbaicalensibus Sibirae."

Stipa splendens Trin. var. *gracilis* Bor, Grasses Burma, Ceylon, India and Pakistan 647. 1960. Type: Baltistan, Karakoram; *C.B. Clarke* 30097

Achnatherum splendens (Trin.) Ohwi, J. Jap. Bot. 17: 404. 1941

Lasiagrostis splendens (Trin.) Kunth, Révis. Gramin. 1: 58. 1829

Stipa altaica Trin. ex Ledeb., Fl. Altaic. 1: 80. 1829. Type: "In arenosis et sterilibus subsalsis frequens (L.M.), in montosis apricis ad fl. Ursul. (B)."

Stipa schlagintweitii Mez, Repert. Spec. Nov. Regni Veg. 17: 208. 1921. Type: China: Xizang, Balti province "Tibet"; *H. von Schlagintweit* 5787

Distribution. Jammu and Kashmir [China, Pakistan].

Habit. Perennial.

***Orthoraphium* Nees, Proc. Linn. Soc. London 1: 94. 1841.**

Type. *Orthoraphium roylei* Nees.

197. *Orthoraphium roylei* Nees, Proc. Linn. Soc. London 1: 94. 1841.

Stipa roylei (Nees) Mez, Repert. Spec. Nov. Regni Veg. 17: 207. 1921

Stipa orthoraphium Steud., Syn. Pl. Glumac. 1: 131. 1854, nom. superfl. & illegit.

Type. Not given.

Distribution. Assam, Himachal Pradesh, Nagaland, Sikkim, Uttar Pradesh, Uttarakhand [China].

Habit. Perennial.

***Piptatherum* P. Beauv., Ess. Agrostogr. 17, 173. 1812**

Lectotype. *P. caerulescens* (Desf.) P. Beauv. (*Milium caerulescens* Desf.) (vide Hitchcock, U. S. Dept. Agric. Bull. 772: 156. 1920).

198. *Piptatherum aequiglume* (Duthie ex Hook. f.) Munro ex Roshev., Bot. Mater. Gerb. Bot. Inst. Komarova Akad. Nauk S.S.S.R. 14: 113. 1951

Oryzopsis aequiglumis Duthie ex Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 234. 1896. Type: Temperate Himalaya: from Kashmir to Sikkim, alt. 6000–10000 ft.; Duthie s.n.

Piptatherum aequiglume (Duthie ex Hook. f.) Munro ex Roshev. var. *fasciculatum* (Hack.) Freitag, Notes Roy. Bot. Gard. Edinburg 33(3): 379. 1975

Oryzopsis fasciculata Hack., Oesterr. Bot. Z. 52: 10. 1902. Lectotype: Pakistan: Kashmir, Astor District, in valle Kamri prope Kalapani, alt. 9000 ft.; August 25, 1892; Duthie 12644 (W). (vide Notes Roy. Bot. Gard. Edinburg 33(3): 379. 1975)

Piptatherum fasciculatum (Hack.) Roshev., Bot. Mater. Gerb. Bot. Inst. Komarova Akad. Nauk S.S.S.R. 14: 114. 1951

Distribution. Jammu and Kashmir, Rajasthan, Sikkim [Pakistan].

Habit. Perennial.

199. *Piptatherum gracile* Mez, Repert. Spec. Nov. Regni Veg. 17: 211. 1921

Oryzopsis gracilis (Mez) Pilg., Notizbl. Bot. Gart. Berlin-Dahlem 14: 347. 1939

Oryzopsis brachyclada Pilg., Notizbl. Bot. Gart. Berlin-Dahlem 14: 345. 1939. Type: Kashmir, Nanga-Parbat-Gebiet, Oberes Rakhiot-Tal, Moränen des Ganalo-Gletschers, nach Süden exponierte Hochgras-Matten, 12800 ft.; July 9, 1937; C. Troll 7774

Oryzopsis lateralis Stapf, Fl. Brit. India (J.D. Hooker). 7(22): 234. 1896, p.p. excluding basionym.

Type. China: West Tibet; Thomson s.n. (B).

Distribution. Jammu and Kashmir [China, Nepal, Pakistan].

Habit. Perennial.

200. *Piptatherum hilariae* Pazij, Notul. Syst. Herb. Inst. Bot. Acad. Sci. Uzbekistanicae 10: 20. 1948

Oryzopsis humilis Bor, Kew Bull. 1951: 445. 1952. Type: India: Jaunsar, Rocks north of Deoban, alt. 8000 ft.; June 21, 1897; J.F. Duthie 19850a (K).

Piptatherum humile (Bor) S. Kumar & Raizada, Indian J. Forest. 9(2): 177. 1986

Oryzopsis wendelboi Bor, Nytt Mag. Bot. 1: 16. 1952. Type: Chitral, Barum Gol, Shokor Shal, alt. 11200 ft.; July 14, 1950; *Per Wendelbo s.n.* (K).

Type. Asia Centre Pamir Alai.

Distribution. Himachal Pradesh, Jammu and Kashmir, Uttar Pradesh, Uttarakhand [China, Pakistan].

Habit. Perennial.

Remarks. Records for Jammu and Kashmir and Uttar Pradesh fide Naithani (1990). Taxonomic editor Soreng suggests accepting this name, which is older than any of Bor's taxa listed here in synonymy.

201. *Piptatherum laterale* (Munro ex Regel) Roshev., Bot. Mater. Gerb. Bot. Inst. Komarova Akad. Nauk S.S.S.R. 14: 117. 1951

Milium laterale Munro ex Regel, Trudy Imp. S.-Petersburgsk. Bot. Sada 7(2): 645. 1881. Type: "In Afghanistan. *Piptatherum laterale* Muroe."

Distribution. Jammu and Kashmir [Nepal, Pakistan].

Habit. Perennial.

202. *Piptatherum munroi* (Stapf) Mez, Repert. Spec. Nov. Regni Veg. 17: 212. 1921

Oryzopsis munroi Stapf, Fl. Brit. India (J.D. Hooker). 7(22): 234. 1896. Type: Western Himalaya: Kashmir to Garhwal, alt. 7000–11000 ft.; *J.D. Hooker & T. Thomson s.n.*
Oryzopsis stewartiana Bor, Kew Bull. 1953: 272. 1953. Type: India: Pulga, Parbatti Valley, 6400 ft.; July 22, 1935; *Mohinder Nath* 988 (K).

Distribution. Himachal Pradesh, Jammu and Kashmir, Uttarakhand [Bhutan, China, Nepal, Pakistan].

Habit. Perennial.

203. *Piptatherum vicarium* (Grig.) Roshev., Bot. Mater. Gerb. Bot. Inst. Komarova Akad. Nauk S.S.S.R. 14: 105. 1951

Oryzopsis vicaria Grig, Trudy Tadzhikistansk. Bazy 8: 574. 1938. Type: Central deciduous woodland and open vegetation, 1600 ft.-9000 ft.; *Tuturin & Besedin* 81 (LE).

Oryzopsis microcarpa Pilg., Notizbl. Bot. Gart. Berlin-Dahlem 14: 346. 1939. Type: Kashmir, Nanga-Parbat-Gebiet, Astor Tal, Daschkin, im Artemisien Gesträuch zwischen Büschen und Steinen, 7500 ft.; May 30, 1937; *C. Troll* 7272

Distribution. Jammu and Kashmir [Pakistan].

Habit. Perennial.

Remarks. Record for India fide Naithani (1990).

***Ptilagrostis* Griseb., Fl. Ross. [Ledebour] 4: 447. 1852**

Type. *Ptilagrostis mongholica* (Turcz.) Griseb. (*Stipa mongholica* Turcz.).

204. *Ptilagrostis concinna* (Hook. f.) Roshev., Fl. URSS 2: 75. 1934

Stipa concinna Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 230. 1896. Type: Sikkim Himalaya, in the Tibetan region, alt. 14000–16000 ft.; *J.D. Hooker s.n.*

Distribution. Himachal Pradesh, Jammu and Kashmir, Sikkim [China, Nepal, Pakistan].

Habit. Perennial.

205. *Ptilagrostis dichotoma* Keng ex Tzvelev, Rast. Tsentr. Azii 4: 43. 1968

Type. China: Gansu/Qinghai border; *Y.C. Wu* 478.

Distribution. India; states not recorded. [Bhutan, China, Nepal].

Habit. Perennial.

206. *Ptilagrostis mongholica* (Turcz. ex Trin.) Griseb., Fl. Ross. (Ledeb.) 4: 447. 1852

Stipa mongholica Turcz. ex Trin., Bull. Sci. Acad. Imp. Sci. Saint-Pétersbourg 1: 67–68. 1836. Type: “Habitat in Sibiria baikalensi in pratis humidis ad torrentem Dschiginai in oxam influentem et ad fl. Tschikoi”; *Turcz s.n.*

Achnatherum mongholicum (Turcz. ex Trin.) Ohwi, J. Jap. Bot. 17: 403. 1941

Lasiagrostis mongholica (Turcz. ex Trin.) Trin. & Rupr., Mém. Acad. Imp. Sci. Saint-Pétersbourg, Sér. 6, Sci. Math., Seconde Pt. Sci. Nat. 5: 87. 1842

Stipa tibetica Mez, Repert. Spec. Nov. Regni Veg. 17: 207. 1921. Type: China: Xizang, Lasiang, Mougholica, Iriu, 14,000 ft. “West Tibet”; *J.D. Hooker & Thomson s.n.*

Distribution. Himachal Pradesh, Jammu and Kashmir, Sikkim, Uttar Pradesh [China, Pakistan].

Habit. Perennial.

***Stipa* L., Sp. Pl. 1: 78. 1753**

Lectotype. *Stipa pennata* L. LT designated by Nash in N.L. Britton et A. Brown, Ill. Fl. N.U.S. ed. 2. 1: 176. 1913; affirmed by Hitchcock, Bull. U.S.D.A. 772: 159. 1920.

207. *Stipa arabica* Trin. & Rupr., Sp. Gram. Stipac. 77. 1842

Stipa arabica Trin. & Rupr. var. *szowitsiana* Trin., Mém. Acad. Imp. Sci. Saint-Pétersbourg, Sér. 6, Sci. Math., Seconde Pt. Sci. Nat. 5: 77. 1842. Type: “Persia borealis: in salsas arenosis inter Khoi et Seidkozi prov. Aderbeischan rarius; Junio (Szovitis). Transcaucin collibus aridis lapidosus prope Tatuni tractus Suwant (Hohenacker).”
Stipa szowitsiana (Trin.) Griseb., Fl. Ross. (Ledeb.) 4: 450. 1853 (as “szovitsiana”)

Type. “Inter lapides ad radices montis Sinai; 15 Majo. (Schimper Un. Itin n. 107).” Israel: Mount Sinai; *G.H.W. Schimper 107*

Distribution. India; states not recorded (Northwest Himalaya) [China, Pakistan].

Habit. Perennial.

208. *Stipa breviflora* Griseb., Nachr. Ges. Wiss. Gottingen, Math.-Phys. Kl. 82. 1868

Stipa aliciae Kanitz, Növényt. Gyujtesek Eredm. Grof Szechenyi Bela Keletasziai Utjabol 61. t. 7. f. 4. 1891. Type: China: “Hab Prov. Kansu n. 62. Ku-lang-szhien; June 24, 1879.”

Type. China: Western Xizang, Tnari Khorsum.

Distribution. Jammu and Kashmir, Ladakh [China, Nepal].

Habit. Perennial.

Remarks. Record for Ladakh fide Naithani (1990).

209. *Stipa bungeana* Trin. ex Bunge, Enum. Pl. Chin. Bor. 70. 1833

Type. China: “Hebei, ad radices montium Zui-wey-schan et ad vias prope Ssi-jui-ssi”; *Bunge s.n.*

Distribution. India; states not recorded (Eastern Himalaya) [China].

Habit. Perennial.

210. *Stipa capillacea* Keng, *Sunyatsenia* 6(2): 100–102, pl. 15. 1941

Type. China: Sichuan: open grass land in rear of Shaowusi Agricultural Station, Taining Xian; *K.L. Chu* 7449

Distribution. Arunachal Pradesh, Jammu and Kashmir, Uttarakhand [Bhutan, China, Nepal].

Habit. Perennial.

211. *Stipa capillata* L., *Sp. Pl.*, ed. 2. 1: 116. 1762

Type. “Habitat in Germania, Gallia.” Lectotype: Herb. Burser I: 127 (UPS). LT designated by Freitag in *Notes Roy. Bot. Gard. Edinburgh* 42: 453. 1985.

Distribution. Himachal Pradesh, Jammu and Kashmir [China, Pakistan].

Habit. Perennial.

212. *Stipa caragana* Trin., *Mém. Acad. Imp. Sci. Saint-Pétersbourg, Sér. 6, Sci. Math., Seconde Pt. Sci. Nat.* 1: 74. 1830

Lasiagrostis caragana (Trin.) Trin. & Rupr., *Mém. Acad. Imp. Sci. Saint-Pétersbourg, Sér. 6, Sci. Math., Seconde Pt. Sci. Nat.* 7: 90. 1843

Oryzopsis pallescens Vestberg, *Trudy Bot. Sada Imp. Yur’evsk. Univ.* 5: 147. 1904. Type: Given in Russian language

Type. “V. ssp. e littore oriental. maris Caspici.” Russia: Caspian region; *Eichwald s.n.* (LE).

Distribution. India; states not recorded [China, Pakistan].

Habit. Perennial.

213. *Stipa caucasica* Schmalh., *Ber. Deutsch. Bot. Ges.* 10: 293. 1892 ssp. *caucasica*

Stipa orientalis Trin var. *grandiflora* Rupr., *Mém. Acad. Imp. Sci. St.-Pétersbourg, Sér.* 7 14(4): 35. 1869. Type: not given

Stipa bella Drob., *Repert. Spec. Nov. Regni Veg.* 21: 37. 1925, nom. later hom. illeg., non Phil, 1870

Syntypes. “Caucasus septentrionalis: Kislowodsk, 24 Julio 1886 (Akinefijew). Daghestania: Czir-Jurt 11 Majo et Tem ir-Chan Schura 6 Majo 1891 (Lipski).” Russia: Caucasus, Kislowodsk; July 24, 1886; *Lipsky s.n.*

Distribution. Jammu and Kashmir, Ladakh [China].

Habit. Perennial.

Remarks. Record for Ladakh fide Naithani (1990).

214. *Stipa caucasica* Schmalh. ssp. *glareosa* (Smirnow) Tzvelev, Novosti Sist. Nizsh. Rast. 11: 20. 1974

Stipa glareosa Smirnow, Repert. Spec. Nov. Regni Veg. 26: 266. 1929. Type: "Hab in deserto Gobi et in Altaj locis petrosis V. glareosis."

Distribution. Jammu and Kashmir [also in Mongolia].

Habit. Perennial.

Remarks. Record for India fide Naithani (1990).

215. *Stipa chitralensis* Bor, Kew Bull. 1954: 500. 1954

Type. India Orientalis, Chitral, Guger, alt. 3000; May 18, 1895; *Surgeon Lt. Harris 16800* (K).

Distribution. Jammu and Kashmir [Pakistan].

Habit. Perennial.

216. *Stipa consanguinea* Trin. & Rupr., Mém. Acad. Imp. Sci. Saint-Pétersbourg, Sér. 6, Sci. Math., Seconde Pt. Sci. Nat. 5: 78. 1842

Stipa koelzii R.R. Stewart, Brittonia 5(4): 441. 1945. Type: India: Kashmir, Ladakh, Gya; August 13–14, 1933; *W. Koelz 6432* (US-1607603).

Type. "Habitatus totus Stipae orientalis, sed pubes adpressa aristarum Stipae holosericeae." Russia: Siberi, Altai, near Tschuga river; 1832; *Bunge s.n.*

Distribution. Himachal Pradesh, Jammu and Kashmir, Ladakh, Sikkim [Bhutan, China, Nepal, Pakistan].

Habit. Perennial.

Remarks. Records for Himachal Pradesh, Ladakh, and Sikkim fide Naithani (1990).

217. *Stipa himalaica* Roshev., Bot. Mater. Gerb. Glavn. Bot. Sada RSFSR 5(1): 11. 1924

Stipa pennata sensu Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 230. 1896, non L., 1753

Type. China: Tibet Province Ladakh; July 1–15, 1856; *Herbarium Schlagintweit 3 gen No Catalogue 1337*.

Distribution. Himachal Pradesh, Jammu and Kashmir [China, Pakistan].

Habit. Perennial.

Remarks. Records for India fide Naithani (1990).

218. *Stipa orientalis* Trin. ex Ledeb., Fl. Altaic. 1: 83. 1829

Type. “In rupium fissures ad flum. Tscharysch (L.B.) et n montibus Kurtschum et Arkaul.”

Distribution. Jammu and Kashmir, Himachal Pradesh, Uttar Pradesh [China].

Habit. Perennial.

219. *Stipa pennata* L. ssp. *kirghisorum* (Smirnow) Freitag, Notes Roy. Bot. Gard. Edinburgh 42: 438. f. 19. 1985

Stipa kirghisorum Smirnow, Repert. Spec. Nov. Regni Veg. 21: 232. 1925. Type: “Habitat in montosis et stepposis Turkestanicae et in Mongolia occidentali.”

Distribution. Himachal Pradesh, Jammu and Kashmir [China, Pakistan].

Habit. Perennial.

Remarks. Records for India fide Naithani (1990).

220. *Stipa purpurea* Griseb., Nachr. Ges. Wiss. Gottingen, Math.-Phys. Kl. 82. 1868

Ptilagrostis purpurea (Griseb.) Roshev., Fl. URSS 2: 76. 1934

Lasiagrostis tremula Rupr., Mém. Acad. Imp. Sci. St.-Petersbourg, Sér. 7. 14(4): 35. 1869. Type: Not given

Stipa semenowii Krassn., Bot. Zap. 2: 22. 1889. Type: “In valle fluminis Sary-Jassy in montibus Thian-Schan non procul ab alpe Chan-tengri et in trajectu Turguen-Aksu non rara.”

Type. China: Western Xizang, Tnari Khorsum, 15300–18500 ft.; *Schlagintweit 7116* (LE).

Distribution. Jammu and Kashmir [China, Pakistan].

Habit. Perennial.

Remarks. Taxonomic editors Soreng and Peterson note that this species should continue to be classified in *Stipa*, although it has copies of the ribosomal internal tran-

scribed spacer (ITS) from three genera (Romaschenko et al. 2008). The dominant copy is from *Stipa* as is the chloroplast (Lu et al. 2016).

221. *Stipa regeliana* Hack., Sitzungsber. Kaiserl. Akad. Wiss., Math.-Naturwiss. Cl., Abt. 1 89: 130. 1884

Type. Kyrgyzstan: Tien Shan, Issikul Musart pass, alt. 7000–8000 ft.; August, 1877; *A. Regel s.n.* (W).

Distribution. Jammu and Kashmir, Ladakh [China].

Habit. Perennial.

Remarks. Records for India fide Naithani (1990).

222. *Stipa roborowskyi* Roshev., Bot. Mater. Gerb. Glavn. Bot. Sada RSFSR 1(6): 1. 1920

Stipa basi-plumosa Munro ex Hook. f. var. *longe-aristata* Munro ex Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 229. 1896. Type: China: Western Tibet; *Thomson s.n.* *Stipa purpurea* sensu Bor, Grasses Burma, Ceylon, India and Pakistan 645. 1960, non Griseb., 1868

Type. “In montium Kuen Lun jugo Russky, alt. 9700–12200 ft.; July 3, 1890; *Roborowsky s.n.*

Distribution. Jammu and Kashmir, Sikkim [China, Pakistan].

Habit. Perennial.

223. *Stipa sibirica* (L.) Lam., Tabl. Encycl. 1: 158. 1791

Avena sibirica L., Sp. Pl. 1: 79. 1753. Type: “Habitat in Sibiria.” Lectotype: Amman 27, Herb. Linn. No. 95.1 (LINN). LT designated by Scholz in Cafferty et al. (ed.), Taxon 49: 248. 2000.

Achnatherum sibiricum (L.) Keng., ex Tzvelev, Probl. Ekol. Geobot. Bot. Geogr. Florist. 140. 1977.

Stipa confusa Litw., Izv. Akad. Nauk SSSR, Ser. 7: 53. 1928. Type: Russia: “In Sibiriae prov. Tobolsk, Altai, Semipalatinsk (distr. Ustkamenogorsk), Jenisej (prov. Krasnojarsk. et Minusinsk), Irkutsk, Transbajcalia, Jakutsk (distr. Jakutsk).”

Distribution. Himachal Pradesh, Jammu and Kashmir, Uttar Pradesh [China, Malaysia, Myanmar, Pakistan].

Habit. Perennial.

224. *Stipa subsessiliflora* (Rupr.) Roshev., Izv. Imp. Bot. Sada Petra Velikago 14(Suppl. 2): 50. 1915

Lasiagrostis subsessiliflora Rupr., Mém. Acad. Imp. Sci. St.-Pétersbourg, Sér. 7. 14(4): 35. 1869. Type: Kyrgyzstan: Tian Shan, Toyandyund Sunktu-Thal, 15400–16000 ft.; July 30, 1867; *F. Osten-Sacken s.n.* (LE).

Stipa basi-plumosa Munro ex Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 229. 1896. Type: China: Western Tibet, Nubra, and the Lanak Pass, alt. 15000–17000 ft.; *Thomson s.n.*

Distribution. Jammu and Kashmir [China, Pakistan].

Habit. Perennial.

225. *Stipa turkestanica* Hack., Trudy Imp. S.-Peterburgsk. Bot. Sada 26: 59. 1910 ssp. *turkestanica*

Type. Turkestan: Schugnan, Dschidak in valle fl. Badamdara; July 27, 1904; *B.A. Fedtschenko s.n.*

Distribution. Himachal Pradesh, Jammu and Kashmir [also in Asia].

Habit. Perennial.

Remarks. Records for India fide Naithani (1990).

226. *Stipa turkestanica* Hack. ssp. *trichoides* (P.A. Smirn.) Tzvelev, Novosti Sist. Vyssh. Rast. 11: 17. 1974

Stipa trichoides P.A. Smirn., Repert. Spec. Nov. Regni Veg. 21: 233. 1925. Syntypes: Turkmenistan: Ashabad Province, Mt. Ludsha, 6500 ft.; *Litvinov 2222* (LE). Turcomania: Fergana, Alaicum, Langar; *B. Fedtschenko s.n.*

Distribution. Jammu and Kashmir [Afghanistan, Pakistan].

Habit. Perennial.

Remarks. Record for India fide Naithani (1990).

***Stipellula* Röser & H.R. Hamasha, Schlechtendalia 24: 91. 2012**

227. *Stipellula capensis* (Thunb.) Röser & H.R. Hamasha, Schlechtendalia 24: 92. 2012

Stipa capensis Thunb., Prodr. Pl. Cap. 19. 1794. Type: South Africa; *Thunberg s.n.* (UPS).

Stipa tortilis Desf., Fl. Atlant. 1: 99. t. 31. f. 1. 1798. Type: "Habitat in arvis."

Distribution. Punjab [Pakistan].

Habit. Annual.

***Trikeriaia* Bor, Kew Bull. 1954: 555. 1955**

Type. *Trikeriaia hookeri* (Stapf) Bor (*Stipa hookeri* Stapf).

228. *Trikeriaia hookeri* (Stapf) Bor, Kew Bull. 1954: 555. 1955 var. *hookeri*

Stipa hookeri Stapf, J. Linn. Soc., Bot. 30: 120. 1894. Type: China: Tibet, Probably in the vicinity of Lhasa; July, September, 1891; *Thorold* 124 (K).

Achnatherum hookeri (Stapf) Keng, Clav. Gen. Sp. Gram. Prim. Sin. 213. 1957

Timouria aurita Hitchc., J. Wash. Acad. Sci. 23: 134–136. 1933. Type: India: Western Himalaya, Kashmir, Rupshu, Kugzil, alt. 13700; July 16, 1931; *Walter Koelz* 2328

Distribution. Jammu and Kashmir [China, Pakistan].

Habit. Perennial.

229. *Trikeriaia hookeri* (Stapf) Bor var. *ramosa* Bor, Kew Bull. 1954(4): 557. 1955

Stipa hookeri Stapf var. *ramosa* (Bor) S. Karthikeyan et al., Fl. Ind. ser. 4, 1 (Monocotyledon): VI. 1989

Type. China: Tibet, Nye, Tsangpo Valley, 12500 ft.; September 2, 1935; *F. Kingdon Ward* 12295 (BM).

Distribution. India; states not recorded [China].

Habit. Perennial.

Remarks. Taxonomic editors Soreng and Peterson question whether this species truly occurs in India.

Tribe Brachypodieae Harz, 1880

Plants annual or perennial. *Inflorescence unbranched, the spikelets on short pedicels*. Spikelets laterally compressed, generally with more than 5 flowers. Glumes shorter than the flowers. Ovary apex pubescent.

***Brachypodium* P. Beauv., Ess. Agrostogr. 100, 155. 1812**

Lectotype. *Brachypodium pinnatum* (L.) P. Beauv. (*Bromus pinnatus* L.). LT designated by Niles and Chase, Contr. U.S. Natl. Herb. 24: 196. 1925.

230. *Brachypodium distachyon* (L.) P. Beauv., Ess. Agrostogr. 156. 1812 (as “distachyos”)

Bromus distachyos L., Fl. Palaest. 13. 1756. Type: “Habitat in H. [= Hasselquist]... Palaestina.” Lectotype: Hasselquist, Herb. Linn. No. 93.48 (LINN). LT designated by Schippmann & Jarvis in Taxon 37: 158. f. 1. 1988.

Festuca distachyos (L.) Roth, Catal. Bot. 1: 11. 1797

Trachynia distachya (L.) Link, Hort. Berol. [Link] 1: 43. 1827

Zerna distachyos Panz. ex B.D. Jacks., Index Kew. 1(4): 1249. 1895

Distribution. Jammu and Kashmir, Punjab, Tamil Nadu, Uttar Pradesh [China, Pakistan].

Habit. Annual.

Remarks. Record for Jammu and Kashmir fide Naithani (1990). Taxonomic editor Soreng notes that *B. distachyon* has been split into three species (Catalán et al. 2012; Lopez-Alvarez et al. 2012). It is unclear which name, or if all 3, would be applicable to material from India. Also, there may be older names for the new species, but this will require checking the types of heterotypic synonyms.

231. *Brachypodium sylvaticum* (Huds.) P. Beauv., Ess. Agrostogr. 156. 1812

Festuca sylvatica Huds., Fl. Angl. (Hudson) 38. 1762. Type: “Habitat in sylvis et sepibus frequens.”

Brachypodium sylvaticum (Huds.) P. Beauv. var. *khasianum* Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 363. 1886. Type: India: Khasia Hills

Brachypodium sylvaticum (Huds.) P. Beauv. var. *longe-aristatum* Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 363. 1886. Type: North West Himalaya: Kumaon and Dalhousie, alt. 6000–9000 ft.

Brachypodium sylvaticum (Huds.) P. Beauv. var. *pseudo-distachyon* Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 363. 1886. Type: India: Kashmir and Kumaon

Brachypodium wattii C.B. Clarke, J. Linn. Soc., Bot. 25: 90. t. 40. 1889. Type: India: Kohima, alt. 7500 ft.; *C.B. Clarke s.n.* Jakpho, alt. 7500 ft.; *C.B. Clarke s.n.*

Brachypodium sylvaticum (Huds.) P. Beauv. var. *luzoniense* (Hack.) H. Hara Bot. Mag. (Tokyo) 52: 228. 1938.

Brachypodium sylvaticum (Huds.) P. Beauv. ssp. *luzoniense* Hack., Philipp. J. Sci. 1 (Suppl. 4): 269. 1906. Type: Philippines: Luzon Province, Benguet, Pauai to Baguio; November 9, 1905; *Merrill* 4698

Distribution. Arunachal Pradesh, Himachal Pradesh, Jammu and Kashmir (C82), Meghalaya, Nagaland, Sikkim, Tamil Nadu, Uttar Pradesh, Uttarakhand [Bhutan, China, Nepal, Pakistan].

Habit. Perennial.

Tribe Bromeae Dumort., 1824

Plants annual or perennial, caespitose or rhizomatous. *Leaf sheaths with fused margins.* Spikelets with 3 or more flowers, disarticulating above the glumes. Lemma entire or bidentate, if awned then the awn forming from the sinus or on the abaxial side just below the apex. *Style branches on the abaxial side of the ovary, the ovary enlarged and lobed above the point of insertion of the style branches.*

This tribe included *Littledalea* in the treatment of Kellogg (2015b), but *Littledalea* is now placed in its own tribe (Soreng et al. 2015) so that *Bromus* is the sole member of Bromeae.

***Bromus* L., Sp. Pl. 1: 76. 1753, nom. cons.**

Synonyms. *Anisantha* K. Koch, *Bromopsis* (Dumort.) Fourr., *Ceratochloa* P. Beauv.

Type. *Bromus secalinus* L. (typ. cons.)

232. *Bromus arvensis* L., Sp. Pl. 1: 77. 1753

Type. “Habitat in Europa ad versuras agrorum.” Lectotype: Herb. Linn. No. 93.21 (LINN). LT designated by Smith in Notes Roy. Bot. Gard. Edinburgh 42: 499. 1985.

Distribution. Himachal Pradesh, Jammu and Kashmir, Tamil Nadu [China].

Habit. Annual.

Remarks. Taxonomic editor Soreng cites Cope (1982), saying that this species is not confirmed for Pakistan. “Bor (1960) keys it out but has no distribution for it other than temperate Europe and Asia.”

233. *Bromus berterioanus* Colla, Herb. Pedem. 6: 68. 1836

Bromus barobalianus G. Singh, For. Fl. Srinagar 129. 1976

Distribution. Jammu and Kashmir. Native to South America.

Habit. Annual.

Remarks. Records from India fide Naithani (1990).

234. *Bromus catharticus* Vahl, Symb. Bot. (Vahl) 2: 22. 1791

Bromus unioides Kunth, Nov. Gen. Sp. [H.B.K.] 1: 151 (ed. qto.). 1816. Type: “Crescit locis alsis regni Quitensi prope Chillo, Conocoto et Sangolqui, alt. 1340 hexap.” Ecuador: Pichincha, Chillo, Conocoto & Sangolqui, alt. 1340 ft.; *Humboldt & Bonpland* 2286 (P).

Bromus willdenowii Kunth, Revis. Gramin. 1: 134. 1829. Type: *Willdenow Herb.* 2103 (B). *Ceratochloa cathartica* (Vahl) Herter, Revista Sudamer. Bot. 6(5–6): 144. 1940

Type. “Habitat in Lima.” Lectotype: Peru: Lima; sd; *P. Commerson s.n.* (P-JU, US-865523). LT designated by Pinto-Escobar, *Caldasia* 11(54): 9–16. 1976.

Distribution. Delhi, Himachal Pradesh, Jammu and Kashmir, Meghalaya, Sikkim, Tamil Nadu, West Bengal [China, Nepal]. Naturalized; native to southern South America.

Habit. Perennial.

Remarks. Records for Himachal Pradesh, Jammu and Kashmir, Meghalaya, Sikkim, and West Bengal fide Naithani (1990).

235. *Bromus confinis* Nees, Syn. Pl. Glumac. (Steudel) 1: 320. 1854

Bromus inermis Leyss. var. *confinis* (Nees) Stapf, Fl. Brit. India (J.D. Hooker). 7(22): 358. 1896

Type. Nepal; *Royle Herb. no.* 325.

Distribution. Himachal Pradesh (B60), Sikkim [China, Pakistan].

Habit. Perennial.

236. *Bromus danthoniae* Trin. ex C.A. Mey., Verz. Pfl. Casp. Meer. (C.A. von Meyer) 24. 1831

Trinius danthoniae (Trin. ex C.A. Mey.) Steud., Syn. Pl. Glumac. 1: 328. 1854 (as “danthonia”)

Bromus macrostachys Desf. var. *triaristatus* Hack., Flora 62: 155. 1879, in obs. Type: Teheran; *Kotschy s.n.* ?

Type. Caucasus: Azerbaijan, Talush; June 22, 1830; *C.A. Meyer s.n.* (LE). “In locis lapidosis aridis montium Talusch prope pagum Swant (alt. 670 Hexap.)”.

Distribution. Jammu and Kashmir [China, Pakistan].

Habit. Annual.

237. *Bromus diandrus* Roth, Bot. Abh. Beobacht. 44. 1787

Bromus gussonii Parl., Pl. Nov. 66. 1842 (as “gussoni”). Type: “Habitat in collibus, ad sepes, et in sylvaticis Siciliae, insulae Capri, aliisque Italiae locis. Obtinui ex Corsica ab amico botanico Le Maire.” Sicilia; *Gussone s.n.* (FI).

Neotype. Gr. Bromoides, locustis maximus, lanuginosum, Italicum. Hist. Nat. 261, no. 444, (OXF (Scheuzer Herb.)). NT designated by Sales, Edinb. J. Bot. 50(1): 8–9. 1993.

Distribution. Tamil Nadu [also in the Middle East, Africa, Europe, North America, South America]. Naturalized.

Habit. Annual.

238. *Bromus gracillimus* Bunge, Mém. Acad. Imp. Sci. St.-Pétersbourg Divers Savans 7: 527. 1852

Nevskiella gracillima (Bunge) Krecz. & Vved., Trudy Sredne-Aziatsk. Gosud. Univ., Ser. 8b, Bot. 17: 22. 1934

Bromus crinitus Boiss. & Hohen. ex Boiss., Diagn. Pl. Orient. ser. 1, 2(13): 64. 1854.
Type: “Hab. In monte Elbrus prope pagum Passgala.”

Deschampsia aralensis Regel, Bull. Soc. Imp. Naturalistes Moscou 41(2): 300. 1868.
Type: “Steppe des Aralses im Gebiete des Syr-Darja, Ende Mai fruchttragende Exemplare; *Borazozow* 774.”

Type. “Hab. in der Wüste Karakum bei Kuk-Kabak Zwischen Tshi (*Lasiagrostis splendens*) 19 Mai 1842 (Deflor. et fr. Maturo).”

Distribution. Himachal Pradesh, Jammu and Kashmir [China, Pakistan].

Habit. Annual.

239. *Bromus himalaicus* Stapf, Fl. Brit. India (J.D. Hooker). 7(22): 358. 1896

Zerna himalaica (Stapf) Henrard, Blumea 4(3): 499. 1941

Type. Temperate Himalaya; East Nepal, Sikkim and North Bhutan, alt. 8000–12000 ft.; *J.D. Hooker s.n.*

Distribution. Assam, Sikkim, West Bengal [Bhutan, China, Nepal].

Habit. Perennial.

240. *Bromus hordeaceus* L., Sp. Pl. 1: 77. 1753

Bromus mollis L., Sp. Pl. ed. 2, 1: 112. 1762. Type: “Habitat in Europae australioris siccis.” Lectotype: *Herb. Linn. No. 93.6* (LINN). LT designated by Smith in Cafferty et al. (Ed.), *Taxon* 49: 248. 2000.

Bromus hordeaceus L. ssp. *mollis* (L.) Hyl., Uppsala Univ. Arsskr. 7: 84. 1945

Serrafalcus mollis (L.) Parl., *Rar. Pl. Sicilia*. 2: 11. 1840

Lectotype. “Gramen Avenaceum pratense gluma brevior squamosa et villosa” in Morison, *Pl. Hist. Univ.*, 3: 213. s. 8. t. 7. f. 18. 1699. LT designated by Smith in Cafferty et al. (Ed.), *Taxon* 49: 248. 2000. Epitype: *Herb. Linn. No. 93.7* (LINN). Epitype designated by Smith, P.M. in Cafferty et al. (Ed.), *Taxon* 49: 248. 2000.

Distribution. Himachal Pradesh, Jammu and Kashmir [China, Pakistan].

Habit. Annual.

241. *Bromus inermis* Leyss., Fl. Halens. 16. 1761

Schedonorus inermis (Leyss.) P. Beauv., *Ess. Agrostogr.* 177. 181

Zerna inermis (Leyss.) Lindm., *Sv. Fanerogamfl.* 101. 1918

Bromus inermis Leyss. var. *villosus* (Mert. & W.D. J. Koch) Beck., *Fl. Nieder-Oesterreich*. 1: 106. 1890

Festuca inermis (Leyss.) Lam. & DC. var. *villosus* Mert. & W.D.J. Koch, *Deutschl. Fl.* (Mertens & W.D.J. Koch), ed. 3, 1: 675. 1823

Bromus latifolius Kar. & Kir., *Bull. Soc. Imp. Naturalistes Moscou* 14: 865. 1841. Type: “Hab. in umbrosis montium Aktschavly ad fl. Karakol.”

Type. “In pratis fertilibus succulentis Pomariis in den Pulverweiden im Amstgarten ad Belberg Crollwitz et alibi frequens.”

Distribution. Jammu and Kashmir, Uttar Pradesh. Widespread in Eurasia.

Habit. Perennial.

242. *Bromus japonicus* Houtt., Natuurlijke Historie [tweede deel (second part)] 2(13): 315, t. 91, f. 4. Aanwyzing Pl. [2]. 1782

Bromus abolinii Drobow., *Repert. Spec. Nov. Regni Veg.* 21: 40. 1925. Syntypes: Turkey: Semi-reczie Province, Almaata District; *Abolin* 909, 1502, 1578, 1634, 1655, 1721, 1838, 1864, 1866, 1869

Bromus cyri Trin., *Verz. Pfl. Casp. Meer.* (C.A. von Meyer) 24. 1831. Type: [Caucasus: Azerbaijan: Kura river]; *C.A. Meyer s.n.* (LE).

Bromus patulus Mert. & W.D.J. Koch in Röhl., *Deutschl. Fl.* (Mertens & W.D.J. Koch), ed. 3, 1: 685. 1823

Bromus patulus Mert. & W.D.J. Koch var. *microstachya* Stapf, Fl. Brit. India (J.D. Hooker). 7(22): 361. 1896. Type: Northwest India; *Falconer s.n.*
Serrafalcus patulus (Mert. & W.D.J. Koch) Parl., Fl. Ital. (Parlatore) 1: 394. 1848

Type. Japan; *Thunburg s.n.*

Distribution. Jammu and Kashmir, Uttarakhand [China].

Habit. Annual.

243. *Bromus lanceolatus* Roth, Catalect. Bot. 1: 18. 1797

Type. Europe: Semina benignitati debeo amici aestimatiss cel. Roemer; *Roemer*.

Distribution. Himachal Pradesh, Jammu and Kashmir [Pakistan].

Habit. Annual.

Remarks. Record for Jammu and Kashmir fide Naithani (1990).

244. *Bromus moeszii* Penzes, Magyar Bot. Lapok 33: 24, pl. 10. 1934

Bromus sericeus Drobow, Repert. Spec. Nov. Regni Veg. 21: 39. 1925, non Ten. 1811.

Type: Turkey: Syrdarja Province, Taschkent District, Kaplanbek; 1921; *Abolin* 7496

Bromus tectorum L. ssp. *lucidus* F. Sales, Fl. & Veg. Mundi 9: 32. 1991, nom. nov. for *Bromus sericeus* Drobow, non. Ten. 1823

Type. Iran: auf Aker und Strassen Graben bei [Daulatabad] Dolitabad; *Fichler* 18.

Distribution. Himachal Pradesh, Jammu and Kashmir [China, Pakistan].

Habit. Annual.

245. *Bromus oxyodon* Schrenk, Bull. Sci. Acad. Imp. Sci. Saint-Pétersbourg. 10: 355. 1842

Bromus nototropus Rupr., Mem. Acad. Imp. Sci. Saint Petersburg Ser. 7, 14(4): 73. 1869, in adnot. Type: Not given [Mittleren Tian-Schan]

Bromus lanceolatus Roth. ssp. *oxyodon* (Schrenk) Tzvelev, Spisok Rastenij Gerbarija Flory SSSR 18: 19. 1970

Type. China: Xinjiang: Dzhungaria, desert grasslands, 500–2600 m; *Schrenk s.n.* (LE).

Distribution. Jammu and Kashmir [China, Pakistan].

Habit. Annual.

246. *Bromus pectinatus* Thunb., Prodr. Pl. Cap. 1: 22. 1794

Bromus gedrosianus Penz., Bot. Kozlem. 33: 111. f. 39 (a-d). 48. 1936. Type: Biluchistan: Gedrosia, Killa abdulla; April 10, 1888; *J.F. Duthie* 8738

Bromus japonicus Thunb. var. *falconeri* (Stapf) R.R. Stewart, Brittonia 5(4): 413. 1945

Bromus patulus Mert. & W.D.J. Koch var. *falconeri* Stapf, Fl. Brit. India (J.D. Hooker). 7(22): 361. 1896. Type: North West India; *Falconer s.n.*

Type. South Africa: Cape of Good Hope; *Thunberg* 2522 (UPS).

Distribution. Jammu and Kashmir, Punjab, Uttar Pradesh [Bhutan, China, Nepal, Pakistan].

Habit. Annual.

247. *Bromus porphyranthos* Cope, Fl. Pakistan 143: 574. 1982

Bromus himalaicus Stapf var. *grandis* Stapf, Fl. Brit. India (J.D. Hooker). 7(22): 359. 1896. Type: India: Kumaon, Sikkim, alt. 11000–12000 ft.; *R. Strachey & J.E. Winterbottom s.n.*

Bromus grandis (Stapf) Melderis in H. Hara et al., Enum. Fl. Pl. Nepal 1: 125. 1978, non (Shear) Hitchc., 1912

Distribution. Sikkim, Uttarakhand [Bhutan, China, Nepal, Pakistan].

Habit. Perennial.

248. *Bromus ramosus* Huds., Fl. Angl. (Hudson) 40. 1762

Zerna ramosa (Huds.) Lindm., Sv. Fanerogamfl. 101. 1918

Bromus asper Murray, Prodr. Strip. Gott. 42. 1770. Type: “Hall. Hist. fl. Helun. 1503. Habitu proxime ad Bromum giganteum accedit, cui vero spiculae quadriflorae. Cl Willich Nordheimi inuenit ego in sylua plessensi.”

Type. “Habitat in Sylvis et sepibus frequens.”

Distribution. Himachal Pradesh, Jammu and Kashmir, Kerala, Meghalaya, Nagaland, Sikkim, Tamil Nadu, Uttarakhand [China, Pakistan].

Habit. Perennial.

249. *Bromus scoparius* L., Cent. Pl. I 6. 1755

Bromus confertus M. Bieb., Fl. Taur.-Caucas. 1: 71. 1808. Type: “Habitat in Iberia.” *D. Steuen s.n.*

Bromus ovatus Gaertn., Novi Comment. Acad. Sci. Imp. Petrop. 14: 537. t. 19/1. 1770

Serrafalcus scoparius (L.) Parl., Rar. Pl. Sicilia. 2: 19. 1840

Type. “Habitat in Hispania.” Lectotype: Loeffling 81, Herb. Linn. No. 93.32 (LINN). LT designated by Smith in Notes Roy. Bot. Gard. Edinburgh 42: 499. 1985.

Distribution. Jammu and Kashmir [China].

Habit. Annual.

250. *Bromus staintonii* Melderis in H. Hara et al., Enum. Fl. Pl. Nepal 1: 125. 1978 var. *staintonii*

Type. Nepal: Central Nepal, Tukucha, Kali Gandaki, open grassy slopes, 10200 ft.; August 21, 1954; *Stainton, Sykes & Williams* 7366 (BM).

Distribution. Arunachal Pradesh, Himachal Pradesh, Jammu and Kashmir, Sikkim, Uttar Pradesh [Bhutan, China, Nepal].

Habit. Perennial.

Remarks. All records for India fide Naithani (1990).

251. *Bromus tectorum* L., Sp. Pl. 1: 77. 1753

Schedonorus tectorum (L.) Fr., Bot. Not. 1843(9): 131. 1843

Zerna tectorum (L.) Panz. ex B.D. Jacks., Index. Kew. 1(4): 1249. 1895

Anisantha pontica C. Koch, Linnaea 21: 394. 1848. Type: Turkey: Coruh, Ispir, alt. 4000 ft.; *Koch s.n.*

Bromus abortiflorus St.-Amans, Fl. Agen. 44. 1821. Type: “Fl. E. I. Le. Bord. Des champs sablonneux, a St. Laurent, vis-à-vis le Port-Saint-Marie, a Villeneuve-sur-lot, C. Dans Les Landes, a La Lague, pres Xaintrailles.”

Bromus setaceus Buckley, Proc. Acad. Nat. Sci. Philadelphia 14: 98–99. 1862. Lectotype: USA: Northern Texas; *Buckley s.n.* (US-865474 (fragm.)). LT designated by Hitchcock in Man. Grasses U.S. 817. 1935

Type. “Habitat in Europae collibus siccis et tectis terrestribus.” Lectotype: *Herb. Linn. No. 93.23* (LINN). LT designated by Smith in Notes Roy. Bot. Gard. Edinburgh 42: 500. 1985.

Distribution. Assam, Jammu and Kashmir, Uttar Pradesh [China, Pakistan].

Habit. Annual.

Tribe Triticeae Dumort., 1824

Plants annual or perennial, caespitose or rhizomatous. Leaf sheaths often with prominent auricles. *Inflorescence unbranched*, the spikelets borne crosswise to the rachis.

Spikelets 1 to 5 per node, laterally compressed, disarticulating above the glumes. *Lodicules ciliate*. *Endosperm with simple starch grains*.

Generic limits in this tribe are problematical (Barkworth 2007; Stebbins 1956; Stebbins and Snyder 1956; Stebbins, Jr. and Walters 1949). Extensive hybridization and polyploidy mean that the evolutionary history is not tree-like and hence cannot be converted to a hierarchical classification (Kellogg et al. 1996); therefore, all efforts to create monophyletic genera are somewhat arbitrary.

***Aegilops* L., Sp. Pl. 2: 1050. 1753, nom. cons.**

Type. *Aegilops triuncialis* L. (type cons.).

252. *Aegilops tauschii* Coss., Notes Pl. Crit. 2: 69. 1850 (“1849”)

Patropyrum tauschii (Coss.) A. Love, Biol. Zeutralbl. 101(2): 206. 1982

Triticum aegilops sensu Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 367. 1896, non P. Beauv. ex Roem. & Schult., 1817

Type. “Habitat in Iberia (Buxbaum. Loc. cit, Wilhems in Herb. Gay). In Tauria (Tauch, Loc. cit.). In Graminosis et aridis prope Elisabethpol Georgia Caucasicae (Hohenacker, un. it. 1834).” Lectotype: Ill., pl. 50. f. 1. in Buxbaum, Pl. minus cognit. Centuria 1. 1728. (Illustration). LT designated by van Slageren in Wegen. Agric. Univ. Pap. 94–7: 328. 1994.

Distribution. Kashmir [China, Pakistan].

Habit. Annual.

Remarks. See van Slageren (1994)

***Elymus* L., Sp. Pl. 1: 83. 1753**

Lectotype. *Elymus sibiricus* L. LT designated by Hitchcock, Bull. U.S.D.A. 772: 93. 1920.

Remarks. Taxonomic editor Soreng cites the major generic synonyms of *Elymus* as *Elytrigia* Desv., *Hystrix* Moench, and *Roegneria* K. Koch. In contrast, he notes, *Anthosachne*, *Pseudoroegneria*, *Stenostachys*, and *Thinopyrum* are generally maintained as separate genera, although Australasian members of *Anthosachne* and *Stenostachys* are not part of those genera as currently understood. See Barkworth et al. (2009).

253. *Elymus borianus* (Melderis) Cope in E. Nasir & S.I. Ali, Fl. Pakistan 143: 617. 1982

Agropyron borianum Melderis in Bor, Grasses Burma, Ceylon, India and Pakistan 690. 1960. Type: Swat: Kalam, 7000 ft.; August 24, 1955; *A. Rahmann* 229 (K).

Distribution. Jammu and Kashmir [Pakistan].

Habit. Perennial.

254. *Elymus burchan-buddae* (Nevski) Tzvelev, Rast. Tsent. Azii 4: 220. 1968

Agropyron burchan-buddae Nevski, Izv. Bot. Sada Akad. Nauk SSSR 30: 514. 1932

Distribution. India; states not recorded [China, Nepal].

Habit. Not recorded.

255. *Elymus cacuminis* B. Rong Lu & B. Salomon, Nordic J. Bot. 13: 355, f. 1. 1993

Roegneria cacuminis (B. Rong Lu & B. Salomon) L.B. Cai, Acta Phytotax. Sin. 35(2): 160. 1997

Distribution. India; states not recorded [China, Nepal].

Habit. Not recorded.

256. *Elymus caninus* (L.) L., Fl. Suec. ed. 2, (Linnaeus) 39. 1755

Agropyron caninum (L.) P. Beauv., Ess. Agrostogr. 146. 1812

Triticum caninum L., Sp. Pl. 1: 86–87. 1753. Type: “Habitat in Europae sepibus.” Lectotype: *Herb. Linn. No. 100.10* (LINN). LT designated by Cope & van Slageren in Cafferty et al. (ed.), Taxon 49: 258. 2000.

Distribution. Jammu and Kashmir. Widespread in Eurasia.

Habit. Perennial.

Remarks. Record for India fide Naithani (1990).

257. *Elymus ciliaris* (Trin. ex Bunge) Tzvelev, Novosti Sist. Vyssh. Rast. 9: 61. 1972

Agropyron ciliare (Trin. ex Bunge) Franch., Nouv. Arch. Mus. Hist. Nat. Ser. 2, 7: 151. 1884

Triticum ciliare Trin. ex Bunge, Enum. Pl. Chin. Bor 72. 1833. Type: “Habitat in pratensibus prope Kan-tai.”

Distribution. Arunachal Pradesh, Bihar [China].

Habit. Perennial.

Remarks. Record for Arunachal Pradesh fide Naithani (1990).

258. *Elymus dahuricus* Turcz. ex Griseb., Fl. Ross. [Ledebour] 4: 331. 1852

Clinelymus dahuricus (Turcz. ex Griseb.) Nevski, Izv. Bot. Sada Akad. Nauk S.S.S.R. 30: 645. 1932

Elymus dahuricus Turcz. ex Griseb. var. *micranthus* Melderis in Bor, Grasses Burma, Ceylon, India and Pakistan 697. 1960. Type: Pakistan: Bumbrat; July 22, 1956; *J.H. Norris 25184* (K).

Type. “Hab. In sibiria altaica pr. Krasnojarsk”; *Turcz s.n.* “inque Davuria”; *Turcz s.n.*

Distribution. Himachal Pradesh, Jammu and Kashmir, Punjab [Bhutan, China, Nepal, Pakistan].

Habit. Perennial.

259. *Elymus dentatus* (Hook. f.) Tzvelev, Novosti Sist. Vyssh. Rast. 10: 21. 1973 ssp. *dentatus*

Agropyron dentatum Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 370. 1896. Type: India: Kashmir, alt. 9000–12000 ft.; *Jacquemont s.n.*, *Thomson s.n.* Western Tibet; Karakoram, alt. 14000 ft.; *C.B. Clarke s.n.*

Distribution. Jammu and Kashmir [Pakistan].

Habit. Perennial.

260. *Elymus dentatus* (Hook. f.) Tzvelev ssp. *elatus* (Hook. f.) Á. Löve, Feddes Repert. 95: 455. 1984

Agropyron dentatum Hook. f. var. *elatum* Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 371. 1896. Type: India: Kashmir, Dras, alt. 12000–13000 ft.; *Thomson s.n.*

Elymus dentatus (Hook. f.) Tzvelev var. *elatus* (Hook. f.) G. Singh, J. Econ. Tax. Bot. 8(2): 497. 1986

Distribution. Jammu and Kashmir [Pakistan].

Habit. Perennial.

261. *Elymus dentatus* (Hook. f.) Tzvelev ssp. *kashmiricus* (Melderis) Á. Löve, Feddes Repert. 95: 455. 1984

Elymus dentatus (Hook. f.) Tzvelev var. *kashmiricus* (Melderis) Signh, J. Econ. Tax. Bot. 8: 497. 1986

Agropyron dentatum Hook. f. var. *kashmiricum* Melderis in Bor, Grasses Burma, Ceylon, India and Pakistan 690. 1960. Type: India: Kashmir; *W. Munro s.n.* (K).

Distribution. Jammu and Kashmir.

Habit. Perennial.

Remarks. Record for Jammu and Kashmir fide Naithani (1990).

262. *Elymus dentatus* (Hook. f.) Tzvelev ssp. *scabrus* (Nevski) Á. Löve, Feddes Repert. 95: 455. 1984

Agropyron dentatum Hook. f. var. *scabrum* Nevski, Izv. Bot. Sada Akad. Nauk S.S.S.R 30: 626. 1932. Type: India: Kashmir, Gilgit, Murtur Valley in the bed of stream, 9000–10000 ft.; August 5, 1892; *J.F. Duthie 12423*

Distribution. Jammu and Kashmir [Pakistan].

Habit. Perennial.

Remarks. Record for India fide Naithani (1990).

263. *Elymus duthiei* (Melderis) G. Singh, Taxon 32(4): 639. 1983

Agropyron duthiei Melderis, Grasses Burma, Ceylon, India and Pakistan 662, 690. 1960. Type: Western Himalaya: near Simla, 7000–8000 ft.; August 23, 1889; *J.F. Duthie 10123* (K).

Elymus longearistatus (Boiss.) Tzvelev ssp. *duthiei* (Melderis) Á. Löve, Feddes Repert. 95: 468. 1984

Distribution. Himachal Pradesh, Uttar Pradesh, Uttarakhand [China, Nepal].

Habit. Perennial.

Remarks. Records for Himachal Pradesh and Uttar Pradesh fide Naithani (1990).

264. *Elymus fedtschenkoi* Tzvelev, Novosti Sist. Vyssh. Rast. 10: 21. 1973

Agropyron curvatum Nevski, Izv. Bot. Sada Akad. Nauk S.S.S.R 30: 629. 1932. Type: "Habitat in Turkestan (Prov. Semipalatinsk, Semireczie, Fergana (Alaj) Kuldsha)."

Agropyron macrolepis auct. non Drobow 1925: Bor, Grasses Burma, Ceylon, India and Pakistan 663. 1960

Distribution. Jammu and Kashmir [Nepal, Pakistan].

Habit. Perennial.

Remarks. Record for Jammu and Kashmir fide Naithani (1990).

265. *Elymus himalayanus* (Nevski) Tzvelev, Novosti Sist. Vyssh. Rast. 9: 61. 1972

Roegneria himalayana Nevski, Trudy Sredne-Aziatsk. Gosud. Univ., Ser. 8b, Bot. 17: 68. 1934. Type: NW Himalaya: Jihri-Garhwal, Rhudughera; August 19, 1983; *J.F. Duttie* 140 (LE).

Agropyron himalayanum (Nevski) Melderis, Grasses Burma, Ceylon, India and Pakistan 662. 1960

Distribution. Jammu and Kashmir, Uttar Pradesh, Uttarakhand [China, Pakistan].

Habit. Perennial.

Remarks. Records for Jammu and Kashmir and Uttar Pradesh fide Naithani (1990).

266. *Elymus jacquemontii* (Hook. f.) Tzvelev, Rast. Centr. Azii, Mater. Bot. Inst. Komarov 4: 221. 1968

Anthosachne jacquemontii (Hook. f.) Nevski Fl. URSS 2: 598, pl. 44, f. 20a and b 1934
Agropyron jacquemontii Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 369–370. 1896.
 Syntypes: Western Tibet, Bekar; *Jacquemont* s.n. Nubra, alt. 17000 ft.; *Thomson* s.n. Kumaon, alt. 15500 ft.; *R. Strachey* & *J.E. Winterbottom* s.n.

Distribution. Uttarakhand [China].

Habit. Perennial.

267. *Elymus longe-aristatus* (Boiss.) Tzvelev ssp. *canaliculatus* (Nevski) Tzvelev, Novosti Sist. Vyssh. Rast.9: 62. 1972

Agropyron canaliculatum Nevski, Izv. Bot. Sada Akad. Nauk S.S.S.R. 30: 509. 1932.
 Type: Tajikistan: Darvaz, Peter the Great Range southern slope, Vereshkai glacier, alt. 10500 ft.; July 29, 1899; *V. Lipskii* 2500 (LE).

Roegneria longe-aristata (Boiss.) Drobow var. *canaliculata* (Nevski) L.B. Cai, Acta Phytotax. Sin. 35(2): 165. 1997

Agropyron longe-aristatum auct. non (Boiss.) Boiss., 1884: Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 368. 1896

Elymus x *incertus* H. Hartmann, Candollea 39(2): 519. 1984. Type: Zanskar, Tungri Tal, Doda Rivers, alt. 12800 ft.; *H. Hartmann* 2613

Distribution. Himachal Pradesh, Jammu and Kashmir, Uttar Pradesh [China].

Habit. Perennial.

Remarks. Records for Himachal Pradesh and Jammu and Kashmir fide Naithani (1990). *Anthosachne* Steud. is currently a recognized genus, but restricted to Australasia. *Anthosachne longe-aristatus* (Boiss.) Nevski does not belong to that genus according to Mary Barkworth (pers. comm. Dec 2013).

268. *Elymus mutabilis* (Drobov) Tzvelev, Pl. As. Cent. 4:217. 1968

Agropyron mutabile Drobow, Trudy Botaničeskago Muzeja Imperatorskoj Akademii Nauk 16: 88, pl. 9, f. 3–4. 1916. Type: *Drobov* 315.

Distribution. Jammu and Kashmir. [Pakistan].

Habit. Perennial.

Remarks. Record for Jammu and Kashmir fide Naithani (1990).

269. *Elymus nayarii* Karthik. in S. Karthikeyan et al., Fl. Ind. ser. 4, 1 (Monocotyledon): 213. 1984. Replacement name.

Agropyron thomsonii Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 370. 1896 (as “thomsoni”). Syntypes: Western Himalaya, alt. 10000–12000 ft. from Kunawur and Piti; *Jacquemont s.n.*, *Thomson s.n.* Garhwal; *R. Strachey & J.E. Winterbottom s.n.*, *Duthie s.n.*

Elymus thomsonii (Hook. f.) Melderis in H. Hara et al., Enum. Fl. Pl. Nepal 1: 132. 1978, non Hook. f., 1896

Distribution. Uttarakhand.

Habit. Perennial.

Remarks. Taxonomic editor Soreng notes that Clayton et al. (2006 onwards) cite this as *Agropyron thompsonii*, endemic to India. However, Löve (1984) placed it in the synonymy of *Leymus secalinus*. Evidently, more study is needed.

270. *Elymus nutans* Griseb., Nachr. Königl. Ges. Wiss. Georg-Augusts-Univ. 72. 1868 var. *nutans*

Clinelymus nutans (Griseb.) Nevski, Izv. Bot. Sada Akad. Nauk S.S.S.R. 30: 644. 1932
Elymus nutans Griseb. var. *elatio*r Griseb., Nachr. Königl. Ges. Wiss. Georg-Augusts-Univ. 73. 1868. Type: Himalaya occidentalis: Garhwal, 10000–10600 ft.; *Thomson s.n.*

Elymus nutans Griseb. var. *condensatus* Griseb., Nachr. Königl. Ges. Wiss. Georg-Augusts-Univ. 73. 1868. Type: Himalaya occidentalis, Garhwal, 13400–17600 ft.; *T. Nari Khorsum*

Elymus sibiricus L. var. *minor* Hack. ex Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 373. 1896. Type: *Duthie no. 13745*

Elymus nutans Griseb. var. *albidus* Melderis in Bor, Grasses Burma, Ceylon, India & Pakistan 697. 1960. Type: West Himalaya: Kunawur, Soognam, circa agros; *V. Jacquemont 1638* (K).

Type. “West Himalaya”: Garhwal, from Ghastoli North of Badrinath up the Sarsutti Valley do Deo Tal on South foot of Mana Pass; September 3–5, 1855; *Schlagintweit 9158* (LE). Based on Hooker’s misapplication of *E. sibiricus* Hook., non L.

Distribution. Himachal Pradesh, Jammu and Kashmir, Uttar Pradesh, Uttarakhand [Bhutan, China, Nepal].

Habit. Perennial.

271. *Elymus repens* (L.) Gould, *Madroño* 9(4): 127. 1947

Elytrigia repens (L.) Nevski, Trudy Bot. Inst. Akad. Nauk S.S.S.R., Ser. 1, Fl. Sist. Vyssh. Rast. 1: 14. 1933

Agropyron repens (L.) P. Beauv., Ess. Agrostogr. 102. 146, 180, pl. 20. f. 2. 1812

Triticum repens L., Sp. Pl. 1: 86. 1753. Type: “Habitat in Europae cultis.” Lectotype: Herb. Linn. No. 104.7 (LINN). LT designated by Bowden in *Canad. J. Bot.* 43: 1431. 1965.

Distribution. Jammu and Kashmir [China, Pakistan].

Habit. Perennial.

272. *Elymus russellii* (Melderis) Cope, *Fl. Pakistan* 143: 618. 1982

Agropyron russellii Melderis in Bor, Grasses Burma, Ceylon, India and Pakistan 665, 694. 1960. Type: Karakoram, Hispar Glacier, dry Bank, 12500 ft.; August 1, 1939; *R. Scott Russell 1388* (BM).

Distribution. Jammu and Kashmir [Pakistan]

Habit. Perennial.

Remarks. Taxonomic editor Soreng notes that it is unclear if this species occurs in India or if it is truly endemic only to the Pakistan portion of Kashmir (Baltistan, Gilgit, Markerum).

273. *Elymus schrenkianus* (Fisch. & C.A. Mey.) Tzvelev, Bot. Mater. Gerb. Bot. Inst. Komarova Akad. Nauk S.S.S.R. 20: 428. 1960

Agropyron schrenkianum (Fisch. & C.A. Mey.) P. Candargy, Etude Monogr. Tribu des Hordes 1: 22, 41. 1901

Triticum schrenkianum Fisch. & C.A. Mey., Bull. Cl. Phys.-Math. Acad. Imp. Sci. Saint-Pétersbourg 3(68): 305. 1845. Type: "In monte Tarbagtai."

Distribution. Jammu and Kashmir, Sikkim [Bhutan, China, Nepal].

Habit. Perennial.

Remarks. Record for Jammu and Kashmir fide Naithani (1990).

274. *Elymus schugnanicus* (Nevski) Tzvelev, Nov. Sist. Vyssh. Rast. 9: 62. 1972

Agropyron schugnanicum Nevski, Izvestiya Botanicheskogo Sada Akademii Nauk SSSR 30: 512. 1932

Distribution. Jammu and Kashmir [Pakistan].

Habit. Annual.

Remarks. Record for Jammu and Kashmir fide Naithani (1990).

275. *Elymus sibiricus* L., Sp. Pl. 1: 83. 1753

Clinelymus sibiricus (L.) Nevski, Izv. Bot. Sada Akad. Nauk S.S.S.R. 30: 641. 1932

Elymus krascheninnikovii Roshev., Izv. Bot. Sada Akad. Nauk S.S.S.R. 30: 780. 1932 (as "krascheninnikovi"). Type: Mongolia bor. Occidentalis: In valle fl. Dshargalanta (47° lat. Bor., 104–105 ° long. or.) Ad fontem fl. Uber-Dshargalanta; September 11, 1925; *H. Krascheninnikov* 967/169

Elymus praetervisus Steud., Syn. Pl. Glumac. 1: 348. 1854. Type: Russia: [South] Urals Mountains, Lake Ilmen; 1832; *Lessing s.n.* (LE).

Type. "Habitat in Sibiria." Proposed Conserved Type: *Herb. Linn. No. 100.2* (LINN). Type designated by Bowden in Canad. J. Bot. 42: 554. 1964.

Distribution. Jammu and Kashmir, Sikkim [China, Nepal].

Habit. Perennial.

276. *Elymus sikkimensis* (Melderis) Melderis, En. Fl. Pl. Nepal 1: 132. 1978

Agropyron sikkimense Melderis, Grasses of Burma, Ceylon, India and Pakistan (excluding Bambuseae) 694. 1960

Distribution. Sikkim [Nepal].

Habit. Perennial.

Remarks. Record for Sikkim fide Naithani (1990).

277. *Elymus stewartii* (Melderis) Cope, Fl. Pakistan 143: 627. 1982

Agropyron stewartii Melderis in Bor, Grasses Burma, Ceylon, India and Pakistan 695. 1960. Type: Baltistan: near Kasurmik, Shyok watershed, 9000–10000 ft.; August 15, 1940; *R.R. Stewart & I. D. Stewart 20704* (BM).

Pseudoroegneria stewartii (Melderis) A. Löve, Feddes Repert. 95: 447. 1984

Distribution. Jammu and Kashmir [Pakistan].

Habit. Not recorded but likely perennial.

Remarks. Record for Jammu and Kashmir fide Naithani (1990). Taxonomic editor Soreng notes that *Pseudoroegneria* is usually separated from *Elymus*, but it is unclear whether *P. stewartii* is a good member of *Pseudoroegneria*.

278. *Elymus tschimganicus* (Drobow) Tzvelev, Rasteniia Tsentral'noi Azii 4: 221. 1968

Agropyron tschimganicum Drobow, Key Fl. Tashkent 1: 40. 1923

Distribution. Uttar Pradesh [China].

Habit. Perennial.

Remarks. Record for India fide Naithani (1990). Taxonomic editor Soreng comments on the orthographic variations in the history of this name. In 1923 Drobow spelled it *tschimganicum*; in 1940 Drobow spelled it *czimganicum*; in Fl. Central Azii, 4: 221 (270 in English ed.) 1968, Tzvelev, comb. nov. the combination was spelled as *Elymus czimganicus*, later corrected to *tschimganicus*.

279. *Elymus* × *nothus* (Melderis) G. Singh, Taxon 32(4): 639. 1983

Agropyron × *nothum* Melderis in Bor, Grasses Burma, Ceylon, India and Pakistan 693. 1960. Type: Karakoram, Makerum, Hispar Glacier, dry bank, 12,500 ft.; August 1, 1939; *R. Scott Russell 1387* (BM).

Distribution. Jammu and Kashmir.

Habit. Not recorded.

Remarks. Taxonomic editor Soreng states that this is the named hybrid *Elymus dentatus* × *E. fedtschenkoi*. Cope (1982) lists it among other putative hybrids but says none have been investigated beyond original characterization.

***Eremopyrum* (Ledeb.) Jaub. & Spach, Ann. Sci. Nat. Bot. ser. 3. 14: 360. 1851**

Triticum sect. *Eremopyrum* Ledeb., Fl. Altaica 1: 112. 1829.

Lectotype. *Eremopyrum orientale* (L.) Jaub. & Spach (*Secale orientale* L.). LT designated by A. Love in Biol. Zentralbl. 101: 208. 1982.

280. *Eremopyrum bonaepartis* (Spreng.) Nevski, Trudy Bot. Inst. Akad. Nauk S.S.S.R., Ser. 1, Fl. Sist. Vyssh. Rast. 1: 18. 1933

Triticum bonaepartis Spreng., Bot. Gart. Halle erster Nachtrag [Suppl. 1]. 40. 1801.
Type: "Habitat in Aegypto, Sprengel." Africa: Egypt, alt. 4200–7000 ft. (B-W-2335.1). (vide Tropicos)

Agropyron bonaepartis (Spreng.) T. Durand & Schinz, Consp. Fl. Afr. [T.A. Durand & H. Schinz] 5: 936. 1894 (as "*Agropyrum buonapartis*")

Agropyron orientale (L.) Roem. & Schult. var. *sublanuginosum* Drobow, Trudy Bot. Muz. Imp. Akad. Nauk 16: 135. 1916. Type: "Prov. Syr-Darja. Circa urb. Petro-Alexandrowsk. In arenosis (Lg. A. Zaregradsky, 1914)."

Eremopyrum buonapartis (Spreng.) Nevski var. *sublanuginosum* (Drobow) Melderis, Ark. Bot., n.s. 2: 215, 305. 1952

Agropyron turkestanicum Gand., Bull. Soc. Bot. France 60: 420. 1913. Type: Turkestan: Merw province, near Repetek; April 16, 1902; *Androssow in Herb. fl. Ross 1899* (C).

Hordeum hirsutum Bertol., Misc. Bot. 1: 11. 1842. Lectotype: Chesney's Exped. Pl. Sicc. 196, 1837, "Euphr. ex oris Euphratis" (BOLO). LT designated by Frederikden, Nordic J. Bot. 11: 279. 1991.

Eremopyrum hirsutum (Bertol.) Nevski, Fl. URSS 2: 663. 1934

Triticum squarrosum Roth, Neue Beytr. Bot. 128. 1802, nom. superfl. & illeg. for *Triticum bonaepartis*

Distribution. India (Northwest Himalaya) [Pakistan].

Habit. Annual.

Remarks. Distribution in India not recorded.

281. *Eremopyrum distans* (K. Koch) Nevski, Trudy Bot. Inst. Akad. Nauk S.S.S.R., Ser. 1, Fl. Sist. Vyssh. Rast. 1: 18. 1933

Agropyron distans K. Koch, Linnaea 21: 426. 1848 (as "*Agropyrum*"). Type: "Aus der Provinz Eriwan, c. 3000' hoch, auf basaltisch-trachytischem Boden." Russia: Armenia, ultra Araxen fluv. apud Amaranth; 1838; *C. Koch 636* (LE)

Agropyron lasianthum Boiss., Diagn. Pl. Orient. ser. 1, 2(13): 68. 1854 (as "*Agropyrum*"). Type: "Hab. in Campis Caspiis (Fisch.) in Songaria (Turcz) sub nomine Tr. Orientalis acceptum."

Distribution. India (Western Himalaya; states not recorded) [China, Pakistan].

Habit. Annual.

282. *Eremopyrum orientale* (L.) Jaub. & Spach, Ill. Pl. Orient. 4: 26–27. t. 319. 1851

Secale orientale L., Sp. Pl. 1: 84. 1753. Type: “Habitat ad Archipelagum.” Neotype: *Herb. Tournefort* No. 4939 (P-TOURN). LT designated by Frederiksen in *Nordic J. Bot.* 11: 277. 1991.

Agropyrum orientale (L.) Roem. & Schult., Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 757. 1817

Triticum orientale (L.) M. Bieb., Fl. Taur.-Caucas. 1: 86. 1808

Distribution. India (Western Himalaya; states not recorded) [China, Pakistan].

Habit. Annual.

***Hordeum* L., Sp. Pl. 1: 84. 1753**

Lectotype. *Hordeum vulgare* L. (Designated by Nash in N.L. Britton et A. Brown, Ill. Fl. N.U.S. ed. 2. 1: 286. 7 Jun 1913; affirmed by Hitchcock, Bull. U.S.D.A. 98. 1920).

283. *Hordeum aegiceras* Royle ex Lindl., Intr. Nat. Syst. Bot., ed. 2. 1836

Critho aegiceras (Royle ex Lindl.) E. Mey., Index Seminum [Königsberg (Regimontanum)]. 5. 1848

Hordeum vulgare L. ssp. *aegiceras* (Royle ex Lindl.) Á. Löve, Feddes Repert. 95(7–8): 435. 1984)

Hordeum vulgare L. var. *aegiceras* (Royle ex Lindl.) Aitch., Cat. Pl. Punjab Sindh 171. 1869

Type. Kashmir: cultivated at over 3000 m.

Distribution. Jammu and Kashmir [China, Pakistan].

Habit. Annual.

Remarks. Taxonomic editor Soreng notes that this species is sometimes cultivated in Eastern Europe where it is accepted as *Hordeum vulgare* subsp. *aegiceras* (Nees ex Royle) Á. Löve (PlantBase 2005). Clayton et al. (2006 onwards) accept it as a species, and Flora of China (Wu et al. 2006) as a variety, *Hordeum vulgare* var. *trifurcatum* (Schltdl.) Alef.

284. *Hordeum bogdanii* Wilensky, Trudy Glavn. Bot. Sada 40: 248. 1928 (as “bogdani”)

Critesion bogdanii (Wilensky) Á. Löve, Feddes Repert. 95: 438. 1984

Hordeum secalinum sensu Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 372. 1896, p.p., non Schreb., 1771

Type. Russia: Volga region, Lake Elton, near farm Smutnev; March 27, 1917; *D. Wilensky 374a* (LE).

Distribution. Jammu and Kashmir [China].

Habit. Perennial.

Remarks. Record in India fide Naithani (1990).

285. *Hordeum brevisubulatum* (Trin.) Link, Linnaea 17: 391–392. 1844 ssp. *brevisubulatum*

Hordeum secalinum Schreb. var. *brevisubulatum* Trin., Sp. Gram. [Trinius] 1(1): t. 4. 1823. Type: “Figura ad speciment ircuitense.”

Hordeum secalinum sensu Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 372. 1896, p.p., non Schreb., 1771

Distribution. India (Northwest Himalaya; states not recorded) [China, Pakistan].

Habit. Perennial.

286. *Hordeum brevisubulatum* (Trin.) Link ssp. *nevskianum* (Bowden) Tzvelev, Novosti Sist. Vyssh. Rast. 8: 66. 1971

Hordeum nevskianum Bowden, Canad. J. Genet. Cytol. 7: 396. 1965

Distribution. Jammu and Kashmir [China, Nepal, Pakistan].

Habit. Perennial

Remarks. Records from India and Nepal fide Naithani (1990).

287. *Hordeum brevisubulatum* (Trin.) Link ssp. *turkestanicum* (Nevski) Tzvelev, Novosti Sist. Vyssh. Rast. 8: 66. 1971

Hordeum turkestanicum Nevski, Trudy Sredne-Aziatsk. Gosud. Univ., Ser. 8b, Bot. 17: 40. 1934. Type: “Montes meridionales: Tian-schan occidentalis. Ad declivia argilloso-saxosa montis Tschimgan Majoris”; August 10, 1926; *Rajkova s.n.*

Critesion brevisubulatum (Trin.) Á. Löve ssp. *turkestanicum* (Nevski) Á. Löve, Feddes Rept. 95: 438. 1984

Distribution. Jammu and Kashmir [Nepal].

Habit. Perennial

Remarks. Records from India and Nepal fide Naithani (1990).

288. *Hordeum lagunculiforme* Bakhteyer, Kungl. Lantbrukshogskolans Ann. 23: 309, pl. 1. 1957

Distribution. Jammu and Kashmir [China].

Habit. Annual.

289. *Hordeum leporinum* Link, Linnaea 9: 133. 1834

Hordeum murinum L. var. *leporinum* (Link) K. Richt., Pl. Eur. 1: 130. 1890

Hordeum murinum L. ssp. *leporinum* (Link) Arcang., Comp. Fl. Ital. 805. 1882.

Critesion murinum (L.) Á. Löve ssp. *leporinum* (Link) Á. Löve, Taxon 29(2–3): 350. 1980

Hordeum pseudomurinum Tapp. ex W.D.J. Koch., Syn. Fl. Germ. Helv., ed. 2, 955. 1845. Type: “Ad vias in Tyroli australi, (bei Schlanders im Vintschgau, Dr. Tappeiner)”; *Tappeiner s.n.*

Hordeum ambiguum Döll, Fl. Bras. (Martius) 2(3): 231. 1880. Type: “Habitat ad Monte video, sello d. n. 755.” Uruguay: Montevideo; *Sellow 755*

Hordeum rubens Willk., Oesterr. Bot. Z. 25: 109. 1875. Type: “Malloreia: in cultis, muris, ruderalis, hortis in oppido Soller. Die 6 Maji Jam fere defloratum.”

Type. “Frequens in Graecia.”

Distribution. India (Northwest Himalaya) [also in Europe].

Habit. Annual.

Remarks. Distribution in India not recorded. Taxonomic editor Soreng notes that this species may not occur in India. It is native across the Mid-east to Pakistan including Kashmir. While Cope (1982) cites it as occurring in China, it is not listed by Wu et al. (2006).

290. *Hordeum marinum* Huds. ssp. *gussoneanum* (Parl.) Asch. & Graebn., Syn. Mitteleur. Fl. [Ascherson & Graebner]. 2: 737. 1902

Hordeum gussoneanum Parl., Fl. Palerm. 1: 246. 1845, in obs. Type: Italy: Sicily; *Gussone s.n.*

Critesion marinum (Huds.) Á. Löve ssp. *gussoneanum* (Parl.) Barkworth & D.R. Dewey, Amer. J. Bot. 72(5): 772. 1985

Distribution. Jammu and Kashmir [Pakistan]. Naturalized; native from Europe to central Asia.

Habit. Annual.

Remarks. Record in India fide Naithani (1990). Taxonomic editor Soreng notes that if this actually occurs in India, it is probably naturalized. Cope (1982) records it as occurring in Europe to central Asia, and cites one record from Pakistan.

291. *Hordeum murinum* L., Sp. Pl. 1: 85. 1753 ssp. *murinum*

Zeocriton murinum (L.) P. Beauv., Ess. Agrostogr. 182. 1812

Critesion murinum (L.) Á. Löve, Taxon 29(2–3): 350. 1980

Triticum murale Salisb., Prodr. Stirp. Chap. Allerton 27. 1796, nom. superfl. & illeg.

Type. “Habitat in Europae locis ruderatis.” Lectotype: *Herb. Clifford: 24, Hordeum 3* (BM-000557673). LT designated by Baum & Jarvis in Taxon 34: 529. f. 1. 1985.

Distribution. Jammu and Kashmir [Afghanistan].

Habit. Annual.

292. *Hordeum murinum* L. ssp. *glaucum* (Steud.) Tzvelev, Novosti Sist. Vyssh. Rast. 8: 67. 1971

Hordeum glaucum Steud., Syn. Pl. Glumac. 1: 352. 1854. Type: Saudi Arabia: Mons. Sinai; *Schimper 383* (P).

Critesion glaucum (Steud.) Á. Löve, Feddes Repert. 95: 440. 1984

Hordeum stebbinsi Covas, Madrono 10(1): 17–19, pl. 2. F. 8, 12[left], 13. 1949. Type: USA: California: Lake County, Middletown; May 9, 1948; *G.L. Stebbins & G. Covas 3927* (UC-754601).

Distribution. Jammu and Kashmir [Eurasia].

Habit. Annual.

Remarks. Record from India fide Naithani (1990).

293. *Hordeum spontaneum* C. Koch, Linnaea 21: 430–431. 1848

Hordeum ithaburense Boiss., Diagn. Pl. Orient. Ser. 1, 2(13): 70. 1854. Type: “Hab. In declivibus siccis montis Ithaburis in latere meridionali supra Daburieh.”

Hordeum vulgare L. var. *spontaneum* (C. Koch) Asch. & Graebn., Syn. Mitteleur. Fl. [Ascherson & Graebner]. 2(1): 723. 1902 [cited as synonym]

Type. “Auf den steppenartigen Matten des schirwanschen Theiles des Kaukasus, 500–1000 ft.” Russia: Caucasus, 500–1000 ft.; *C. Koch s.n.*

Distribution. India (Northwest; states not recorded) [China].

Habit. Perennial.

294. *Hordeum vulgare* L., Sp. Pl. 1: 84–85. 1753

Hordeum distichon L., Sp. Pl. 1: 85. 1753. Neotype: France. “Pl. de l’Ouest de la France”; June 29, 1879; *Guadeceau s.n.* (BM-000576277). LT designated by Cope in Cafferty et al. (ed.), Taxon 49: 251. 2000.

Hordeum vulgare L. ssp. *agriocrithon* (Åberg) Å. Löve, Feddes Repert. 95: 435. 1984

Hordeum agriocrithon Åberg, Ann. Agri. Coll. Sweden 6: 159. 1938. Type: China: Xizang, Taofu (Dawo), 9600 ft. (“two specimens grown from the seed collection no. 13064”); *H. Smith*.

Lectotype. Herb. Linn. No. 103.1 (LINN). LT designated by Bowden in Canad. J. Bot. 37: 679. 1959.

Distribution. Assam, Bihar, Delhi, Himachal Pradesh, Jammu and Kashmir, Jharkhand, Karnataka, Madhya Pradesh, Maharashtra, Punjab, Rajasthan, Tamil Nadu, Uttar Pradesh, Uttarakhand, West Bengal [China].

Habit. Annual.

Remarks. Taxonomic editor Soreng notes that this species is cultivated throughout semi-arid regions of Eurasia.

Kengyilia C. Yen & J.L. Yang, Canad. J. Bot. 68: 1897. 1990

Type. *Kengyilia gobicola* C. Yen & J.L. Yang.

295. *Kengyilia thoroldiana* (Oliv.) J.L. Yang, C. Yen & B.R. Baum, Hereditas (Lund) 116(1–2): 27. 1992

Agropyron thoroldianum Oliv., Hooker’s Icon. Pl. 23(3): t. 2262. 1893

Elymus thoroldianus (Oliv.) G. Singh, Taxon 32(4): 640. 1983

Roegneria thoroldiana (Oliv.) Keng, Acta Univ. Nankin. Sci. Nat. 1963(3): 79. 1963

Distribution. Sikkim [China].

Habit. Perennial.

***Leymus* Hochst., Flora 31: 118. 1848**

Type. *Leymus arenarius* (L.) Hochst. (*Elymus arenarius* L.).

296. *Leymus secalinus* (Georgi) Tzvelev, 4: 209. 1968

Triticum secalinum Georgi, Bemerk. Reise Russ. Reich 1: 198. 1775. Type: Russia, 2600–5000m.

Elymus dasystachys Trin., Fl. Altaic. (Ledebour). 1: 120. 1829

Elymus thomsonii Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 374. 1896 (as “thomsoni”). Type: China: Western Tibet, Xizang, Danskar, Piti, alt. 13000 ft.; *T. Thomson* s.n.

Distribution. Uttar Pradesh, Uttarakhand [China, Pakistan].

Habit. Perennial.

297. *Leymus duthiei* (Stapf ex Hook. f.), J. Syst. Evol. 47: 83. 2009

Asperella duthiei Stapf ex Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 375. 1896. Type: India: Western Himalaya, Tihri-Garhwal, alt. 7000–8000 ft.; *J.F. Duthie* 14564 (K).

Hystrix duthiei (Stapf ex Hook. f.) Bor, Indian Forester 66(9): 544. 1940

Macrohystrix duthiei (Stapf ex Hook. f.) Tzvelev & Prob., Bot. Zhurn. (Moscow and Leningrad) 95: 858. 2010.

Distribution. Western Himalaya.

Habit. Perennial.

***Pseudoroegneria* (Nevski) Á. Löve, Taxon 29: 168. 1980**

Elytrigia sect. *Pseudoroegneria* Nevski, Trudy Sredne-Aziatsk. Gosud. Univ., Ser. 8b, Bot. 17: 60. 1934

Type. *Pseudoroegneria strigosa* (M. Bieb.) Á. Löve (*Bromus strigosus* M. Bieb.).

298. *Pseudoroegneria cognata* (Hack.) A. Löve, Feddes Repert. 95: 446. 1984

Agropyron cognatum Hack., Allg. Bot. Z. Syst. 10: 22. 1904. Type: India: Kashmir; *J.F. Duthie* 11895 (W).

Elymus cognatus (Hack.) Cope, Fl. Pakistan 143: 628. 1982

Agropyron cognatum Hack. var. *shingoense* Melderis in Bor, Grasses Burma, Ceylon, India and Pakistan 660, 690. 1960. Type: Baltistan: Kashmir, Shingo Valley, 10000–11000 ft.; July 7, 1893; *J.F. Duthie 11895* (K).

Distribution. Jammu and Kashmir, Ladakh [China, Pakistan].

Habit. Perennial.

Remarks. Records for India fide Naithani (1990).

Secale L., Sp. Pl. 1: 84. 1753

Lectotype. *Secale cereale* L. LT designated by Designated by Hitchcock in U.S.D.A. Bull. 772: 91. 1920.

299. *Secale cereale* L., Sp. Pl. 1: 84. 1753

Triticum cereale (L.) Salisb., Prodr. Stirp. Chap. Allerton 27. 1796

Type. “Habitat - - -” Lectotype: Herb. Linn. No. 102.1 (LINN). LT designated by Bowden in Canad. J. Bot. 40: 1704. 1962.

Distribution. Himachal Pradesh, Madhya Pradesh, Meghalaya, Uttar Pradesh, Uttarakhand.

Habit. Annual.

Remarks. Native to Eurasia; widely cultivated.

300. *Secale segetale* (Zhuk.) Roshev., Trudy Bot. Inst. Akad. Nauk S.S.S.R., Ser. 1, Fl. Sist. Vyssh. Rast. 6: 143. 1947

Secale cereale L. ssp. *segetale* Zhuk., Trudy Prikl. Bot. 19(2): 56. 1928

Secale afghanicum (Vavilov) Roshev., Trudy Bot. Inst. Akad. Nauk S.S.S.R., Ser. 1, Fl. Sist. Vyssh. Rast. 6: 139. 1947

Secale cereale L. var. *afghanicum* Vavilov, Trudy Prikl. Bot. 16(2): 77. 1926

Distribution. Jammu and Kashmir [China].

Habit. Annual.

Remarks. Record for India fide Naithani (1990).

Triticum L., Sp. Pl. 1: 85. 1753

Lectotype. *Triticum aestivum* L. LT designated by Hitchcock in Amer. J. Bot. 10: 513. 1923.

301. *Triticum aestivum* L., Sp. Pl. 1: 85. 1753, nom. cons.

Triticum compositum L., Syst. Veg., ed. 13. 108. 1774. Neotype : Cultivated. “*Triticum compositum* L. Introdotto nella coltura del basso Egitto,” Herb. Figari (K). Neotype designated by Cope in Cafferty et al. (ed.), Taxon 49: 258. 2000.

Triticum hybernum L., Sp. Pl. 1: 86. 1753. Type: “Habitat - - -” Lectotype: Herb. Clifford: 24, *Triticum* 2 (BM-000557669). LT designated by Hanelt et al. in Taxon 32: 496, f. 2. 1983.

Triticum sativum Lam., Fl. Franc. (Lamarck). 3: 625. 1779 (“1778”), nom. superfl. & illeg. for *Triticum turgidum*

Triticum vulgare Vill., Hist. Pl. Dauphiné (Villars) 2: 153. 1787. Type: “N. Froment Tourn. Tab. 293.”

Type. “Habitat - - -” Lectotype: Herb. Clifford: 24, *Triticum* 3 (BM-000557670). LT designated by Bowden in Canad. J. Bot. 37: 674. 1959.

Distribution. Andhra Pradesh, Assam, Bihar, Delhi, Gujarat, Haryana, Himachal Pradesh, Karnataka, Madhya Pradesh, Maharashtra, Punjab, Rajasthan, Tamil Nadu, Tripura, Uttar Pradesh, Uttarakhand, West Bengal [China, Myanmar, Pakistan, Sri Lanka].

Habit. Annual.

Remarks. Taxonomic editor Soreng notes that this species is cultivated. It sporadically germinates on roadsides and pastures and market areas due to spillage of grain, but it would not persist on its own. See van Slageren (1994).

302. *Triticum dicoccum* (Schränk) Schübl., Diss. Char. Descr. Cereal. 29. 1818

Triticum spelta L. var. *dicoccum* Schrank, Baier. Fl. 1: 389. 1789, sphalm. Type: Germany: Bavaria, Stuttgart; *H.R. Kerner s.n.* “ult. die vom H.R. Kerner von Stuttgart”; *H.R. Kerner s.n.*

Triticum spelta Host, Icon. Descr. Gram. Austriac. 3: 21, t. 30. 1805, non L., 1753

Distribution. Andhra Pradesh, Bihar, Madhya Pradesh, Maharashtra, Tamil Nadu, Uttar Pradesh, Uttarakhand [China].

Habit. Annual.

Remarks. Taxonomic editor Soreng notes that this species is cultivated. It sporadically germinates on roadsides and pastures and market areas due to spillage of grain, but it would not persist on its own.

303. *Triticum durum* Desf., Fl. Atlant. 1: 114. 1798

Triticum polonicum L. ssp. *durum* (Desf.) A. Löve, Feddes Repert. 95: 497. 1984

Type. “Colitur in Barbaria.”

Distribution. Madhya Pradesh, Maharashtra, Tamil Nadu, Uttar Pradesh, Uttarakhand.

Habit. Annual.

Remarks. Taxonomic editor Soreng notes that this species is cultivated. It sporadically germinates on roadsides and pastures and market areas due to spillage of grain, but it would not persist on its own.

304. *Triticum monococcum* L., *Sp. Pl.* 1: 86. 1753

Crithodium monococcum (L.) Á. Löve, *Feddes Repert.* 95: 490. 1984

Lectotype. *Herb. Linn. No. 104.4* (LINN). LT designated by Bowden in *Canad. J. Bot.* 37: 664. 1959.

Distribution. India; states not recorded [China].

Habit. Annual.

Remarks. Taxonomic editor Soreng notes that this species is cultivated. It sporadically germinates on roadsides and pastures and market areas due to spillage of grain, but it would not persist on its own. Editor Kellogg questions whether this is truly cultivated in India.

305. *Triticum polonicum* L., *Sp. Pl.*, ed. 2. 1: 127. 1762

Triticum glaucum Moench, *Methodus* (Moench) 174. 1794, nom. superfl. & illeg. for *T. polonicum*

Triticum levissimum Hall., *Stirp. Ind. Helv.* 209. 1768

Type. “Habitat - - -” Lectotype: *Herb. Linn. No. 104.3* (LINN). LT designated by Bowden in *Canad. J. Bot.* 37: 670. 1959.

Distribution. Assam [China].

Habit. Annual.

Remarks. Taxonomic editor Soreng notes that this species is cultivated. It sporadically germinates on roadsides and pastures and market areas due to spillage of grain, but it would not persist on its own. The Linnaean typification project assigns the name *Gigachilon polonicum* (L.) Seidl ssp. *polonicum* to this taxon (<http://www.nhm.ac.uk/our-science/data/linnaean-typification/>), but Soreng notes that *Gigachilon* is invalid.

306. *Triticum spelta* L., *Sp. Pl.* 1: 86. 1753

Triticum aestivum L. ssp. *spelta* (L.) Thell., *Mitt. Naturwiss. Ges. Winterthur* 12: 471. 1918

Triticum zea Host, Icon. Descr. Gram. Austriac. 3: 20. t. 29. 1805. Type: Seritur

Type. “Habitat - - -” Lectotype: Herb. Linn. No. 104.1 (LINN). LT designated by Morrison in Taxon 47: 709. 1998.

Distribution. India; states not recorded [China].

Habit. Annual.

Remarks. Taxonomic editor Soreng notes that this species is cultivated. It sporadically germinates on roadsides and pastures and market areas due to spillage of grain, but it would not persist on its own.

307. *Triticum sphaerococcum* Percival, Wheat Pl. Monogr. 321. 1921

Triticum aestivum L. ssp. *sphaerococcum* (Percival) Mackey, Svensk. Bot. Tidskr. 48: 586. 1954

Type. India: parts of Persia; *Howard s.n.*

Distribution. Madhya Pradesh, Punjab.

Habit. Annual.

Remarks. Taxonomic editor Soreng notes that this species is cultivated. It sporadically germinates on roadsides and pastures and market areas due to spillage of grain, but it would not persist on its own.

308. *Triticum turgidum* L., Sp. Pl. 1: 86. 1753

Triticum polonicum L. ssp. *turgidum* (L.) A. Löve, Feddes Repert. 95: 497. 1984

Type. “Habitat - - -” Lectotype: Herb. A. van Royen No. 913.62–257 (L). LT designated by Morrison in Taxon 47: 707. 1998.

Distribution. Northwest India [China].

Habit. Annual.

Remarks. Taxonomic editor Soreng notes that this species is cultivated. It sporadically germinates on roadsides and pastures and market areas due to spillage of grain, but it would not persist on its own. The Linnaean typification project assigns the name *Gigachilon polonicum* (L.) Seidl ssp. *turgidum* (L.) Á. Löve to this taxon (Cafferty et al. 2000), but Soreng notes that *Gigachilon* is invalid.

Tribe Poeae R. Br., 1814

Plants annual or perennial, rhizomatous or caespitose, inflorescence and spikelets variable; spikelets laterally compressed, disarticulating above the glumes. The *punctate hi-*

lum may be synapomorphic; having an *endosperm with lipid* may also be derived here although this character is sparsely sampled.

×*Agropogon* P. Fourn., *Quatre Fl. France* (ed. 1) 50. 1934 (parent: *Agrostis* L., 1753 × *Polypogon* Desf. 1798)

309. ×*Agropogon lutosus* (Poir.) P. Fourn., *Quatre Fl. France* (ed. 1) 50. 1934

[*Agrostis stolonifera* × *Polypogon monspeliensis*]

Agrostis lutosa Poir., *Encycl. (Lamarck) Suppl.* 1: 249. 1810, nom. nov. for *Agrostis littoralis* With.

Agrostis subaristata Aitch. & Hemsl., *J. Linn. Soc., Bot.* 19: 192. pl. 29. 1881. Type: Afghanistan: Kuram District, on margins of fields, alt. 7000 ft.; *J.E.T. Aitchison s.n.* (K).

Polypogon subaristatus (Aitch. ex Hemsl.) Bhattacharya & S.K. Jain, *Curr. Sci.* 49(11): 444. 1980

Polypogon littoralis Sm., *Comp. Fl. Brit.* 13. 1816, nom. nov.

Agrostis littoralis With., *Arr. Brit. Pl.*, ed. 3. 2: 129. t. 23. 1796, non Lam., 1791. Type: England: Specimens from Wells, on the Norfolk coast

Distribution. Assam, Jammu and Kashmir [Afghanistan, China, Pakistan].

Habit. Perennial (short-lived).

Remarks. Widespread, sporadic across Eurasia, sterile.

***Agrostis* L., *Sp. Pl.* 1: 61. 1753, nom. cons.**

Type. *Agrostis canina* L. (typ. cons.).

Taxonomic editor Soreng notes that generic boundaries among *Agrostis*, *Calamagrostis* and *Deyeuxia* are confusing. No molecular studies have yet resolved the problem of how to divide these genera or determined if it is even possible to divide them. See also discussion under *Calamagrostis*.

310. *Agrostis brachiata* Munro ex Hook. f., *Fl. Brit. India* (J.D. Hooker). 7(22): 256. 1896

Type. India: Bihar (“Behar”), Monghyr; *Wallich* (Numer. List [Wallich] no. 3769B).

Distribution. Bihar [Bhutan, China, Nepal].

Habit. Perennial.

311. *Agrostis canina* L., Sp. Pl. 1: 62. 1753, nom. cons.*Agraulus caninus* (L.) P. Beauv., Ess. Agrostogr. 5, 147. t. 4. f. 7. 1812*Trichodium caninum* (L.) Schrad., Fl. Germ. 1: 198. 1806*Agrostis wightii* Nees, Syn. Pl. Glumac. (Steudel) 1: 168. 1854. Type: *Wight Herb. no. 78* as *Vilfa vulgaris***Type.** "Habitat in Europae pascuis humidiusculis." Conserved Type: Herb. Burser I: 3 (UPS). Type designated by Widén in Fl. Fennica 5 : 29. f. 25. 1971.**Distribution.** Jammu and Kashmir, Tamil Nadu [China].**Habit.** Perennial.**312. *Agrostis capillaris* L., Sp. Pl. 1: 62 1753***Agrostis tenuis* Sibth., Fl. Oxon. 36. 1794*Agrostis alba* L. var. *tenuis* (Sibth.) Fiori, Nuov. Fl. Italia. 1: 97. 1923*Agrostis hispida* Willd., Sp. Pl., ed. 4 [Willdenow] 1: 370. 1797. Type: "Habitat in Europae parties, pascuis et arvis."*Agrostis vulgaris* With. var. *hispida* (Willd.) Gaudin, Fl. Helv. 1: 191. 1828*Agrostis stolonifera* L. fo. *hispida* (Willd.) Farw., Rep. (Annual) Michigan Acad. Sci. 21: 351. 1920*Agrostis stolonifera* L. var. *vulgaris* (With.) Celak., Prodr. Fl. Bohmen. 4: 710. 1881 (as "1880")*Agrostis vulgaris* With., Arr. Brit. Pl., ed. 3. 2: 132. 1796. Type: England: very common but grows chiefly on poor dry and sandy soil*Decandolia vulgaris* (With.) Bastard, Essai Fl. Maine-et-Loire 28. 1809*Vilfa vulgaris* (With.) Gray, Nat. Arr. Brit. Pl. 2: 146. 1821*Agrostis vulgaris* With. var. *mutica* G. Sinclair, Hort. Gram. Woburn. 269. 1824. Type: Germany*Agrostis vulgaris* With. var. *plena* G. Mey., Fl. Kon. Hanov. 3, sig. 22. 1842*Agrostis capillaris* Huds., Fl. Angl. (Hudson), ed. 2. 1: 27. 1778, non L., 1753*Agrostis alba* L. var. *vulgaris* (With.) Plues, Brit. Grass. 151. 1867, non G. Mey., 1824**Type.** "Habitat in Europae pratis" LT: Herb. A. van Royen (L-912.356–69 (left-hand specimen); ILT: L); designated by Widen, Fl. Fenn. 5: ? (1971).**Distribution.** Arunachal Pradesh, Sikkim, Uttar Pradesh.**Habit.** Perennial.**313. *Agrostis filipes* Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 256. 1896****Type.** Unresolved. Several syntypes: "Khasia Hills, alt. 5–6000 ft., in several places, Clarke".

Distribution. Assam, Bihar, Meghalaya [Pakistan].

Habit. Perennial.

314. *Agrostis gigantea* Roth, Tent. Fl. Germ. 1: 31–32. 1788

Agrostis stolonifera L. var. *ramosa* (Gray) Veldkamp, Blumea 28(1): 223–225. 1982.

Type: “Not indicated and according to Philipson not preserved. The type of the next name might be appointed as lectotype.”

Vilfa alba (L.) P. Beauv. var. *ramosa* Gray, Nat. Arr. Brit. Pl. 2: 145. 1821. Type: Marshes and Woods

Type. Europe: Germany; *Roth s.n.* (B). “Habitat inter arundinum et salices ad ripas Visurgi Ducatus Bremensis.”

Distribution. Jammu and Kashmir, Sikkim [Afghanistan, Nepal, Pakistan].

Habit. Perennial.

315. *Agrostis griffithiana* (Hook. f.) Bor, Grasses Burma, Ceylon, India & Pakistan 387. 1960

Calamagrostis griffithiana Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 263. 1896.

Syntypes: Western Himalaya: Kumaon, alt. 5500 ft.; *R. Strachey & J.E. Winterbottom s.n.* Khasia Hills, alt. 5000 ft.; *Griffith s.n., J.D. Hooker & Thomson s.n.*

Agrostis wardii Bor, Kew Bull. 1949: 444. 1949. Type: India: Manipur State, Sirhoi Kashong, 9400 ft.; 8.10.1948; *Kingdon-Ward 18145* (K).

Distribution. Assam, Manipur, Uttar Pradesh.

Habit. Perennial.

Remarks. See (Paszko and Pendry 2013).

316. *Agrostis hissarica* Roshev., Bot. Mater. Gerb. Glavn. Bot. Sada RSFSR 4: 93. 1923

Polypogon hissaricus (Roshev.) Bor, Fl. Iranica 70: 307. 1970

Agrostis stewartii Bor, Kew Bull. 1956: 255. 1956. Type: India: Swat State, Kalam, alt. 8000 ft.; August 23, 1952; *R.R. Stewart 24733* (K).

Syntypes. Turkestan: Buchar, Hissar District, Sorbo. 8000 ft.; July 23, 1896; *W. Lipsky 3511*. Prov. Samerkand Utsch-Chada; July 20, 1915; *Balabajew s.n.* Minkwitz; *O. Knorring s.n.* Prov. Fergana, Distr. Andishan, Otusart, sub trajectu Taldy bel.; August 21, 1911; *Z. Minkwitz & O. Knorring 1791*.

Distribution. Jammu and Kashmir [Afghanistan, Pakistan].

Habit. Perennial.

Remarks. Taxonomic editor Soreng notes that *Polypogon hissaricus* (Roshev.) Bor is the accepted name in Lu and Phillips (2006) and Clayton et al. (2006 onwards). Distribution in India fide Naithani (1990).

317. *Agrostis hookeriana* C.B. Clarke ex Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 256. 1896

Type. India: Sikkim Himalaya, in meadow, alt. 9000–11000 ft.; *J.D. Hooker s.n.*

Distribution. Sikkim [Bhutan, China, Nepal].

Habit. Annual.

318. *Agrostis inaequiglumis* Griseb., Nachr. Königl. Ges. Wiss. Georg-Augusts-Univ. 80. 1868

Type. India: Sikkim, 12000–15000 ft.; *J.D. Hooker s.n.*

Distribution. Arunachal Pradesh, Sikkim, N West Bengal. [Bhutan, China, Nepal].

Habit. Annual.

319. *Agrostis micrantha* Steud., Syn. Pl. Glumac. 1: 170. 1854

Agrostis myriantha Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 257. 1896. Lectotype: India: Sikkim, Lachen, 9000–10000 ft.; August 2, 1849; *J.D. Hooker & Thomson, Agrostis* 7 (K). LT designated by H.J. Noltie in Edinburgh J. Bot. 56(3): 390. 1999.

Agrostis myriantha Hook. f. var. *hasiana* Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 257. 1896. Lectotype: India: Khasia; *J.D. Hooker & Thomson, Agrostis* 8 (part) (K). LT designated by H.J. Noltie in Edinburgh J. Bot. 56(3): 390. 1999.

Agrostis myriantha Hook. f. var. *sikkimensis* Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 257. 1896 (nom. superfl. for var. *myriantha* by lectotypification; H.J. Noltie in Edinburgh J. Bot. 56(3): 390. 1999).

Agrostis platyphylla Mez, Repert. Spec. Nov. Regni Veg. 17: 302. 1921. Holotype: J.D. Hooker & T. Thomson, *Agrostis* 8 (in part); no date; India: Khasia (B (photo, K); IT: US-73398 (fragm. ex B)) B destroyed

Agrostis himalayana Bor, Kew Bull. 1953: 269. 1953. Type: Assam: Balipara Frontier Tract, Nyukmadung, 6400 ft.; *F. Kingdon-Ward 11538* (BM).

Type. Nepal; *Wallich* (Numer. List [Wallich] no. 3776) (P).

Distribution. Arunachal Pradesh, Assam, Himachal Pradesh, Jammu and Kashmir, Meghalaya, Sikkim, Tamil Nadu, Uttar Pradesh, West Bengal [Bhutan, China, Myanmar, Nepal].

Habit. Perennial.

320. *Agrostis munroana* Aitch. & Hemsl., J. Linn. Soc., Bot. 19: 192. 1882 ssp. *munroana*

Calamagrostis munroana (Aitch. & Hemsl.) Boiss., Fl. Orient. (Boissier) 5: 523. 1884
Calamagrostis munroana (Aitch. & Hemsl.) Boiss. var. *stricta* Hook. f., Fl. Brit. India
 (J.D. Hooker). 7(22): 263. 1896. Type: Common at altitudes of 11000–15000 ft.;
R. Strachey & J.E. Winterbottom, Agrostis no 4

Type. Afghanistan: Kuram District, Shend-toi gorge, alt. 10000–11000 ft.; *J.E.T. Aitchison s.n.*

Distribution. Himachal Pradesh, Jammu and Kashmir, Uttar Pradesh, Uttarakhand [Afghanistan, China, Nepal, Pakistan].

Habit. Annual.

321. *Agrostis munroana* Aitch. & Hemsl. ssp. *indica* Bhattacharya & S.K. Jain, Bull. Bot. Surv. India 25(1–4): 205. f. 1. 1985 (“1983”)

Type. India: Himachal Pradesh, Karcham-Brue Road; August 27, 1973; *Janardhanan 52862A* (CAL).

Distribution. Himachal Pradesh, Jammu and Kashmir, Uttar Pradesh.

Habit. Annual.

Remarks. Records for India fide Naithani (1990).

322. *Agrostis nervosa* Nees ex Trin., Mém. Acad. Imp. Sci. Saint-Pétersbourg, Sér. 6, Sci. Math., Seconde Pt. Sci. Nat. 6, 4(3–4): 328. 1841

Agrostis clarkei Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 257. 1896. Type: India: Sikkim, alt. 9000–11000 ft.; *J.D. Hooker s.n.*

Agrostis sikkimensis Bor, Kew Bull. 1954: 502. 1954

Agrostis divaricata Griseb., Nachr. Königl. Ges. Wiss. Georg-Augusts-Univ. 81. 1868, non Hoffman, 1800. Type: Himalaya orientalis: Sikkim, alt. 9000–12000; *J.D. Hooker Agrostis no. 11*

Type. India; *Royle s.n.* (LE).

Distribution. Sikkim, Uttar Pradesh, Uttarakhand [Bhutan, China, Myanmar, Nepal].

Habit. Perennial.

Remarks. Taxonomic editor Soreng notes that Hooker cited four specimens for *A. clarkei*, which are syntypes. A lectotype appears not to have been designated yet.

323. *Agrostis peninsularis* Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 255. 1896

Syntypes. India: Deccan Peninsula; *Wight Cat no. 1746*. Pulney Hills; *Wight s.n.*

Distribution. Kerala, Tamil Nadu [Afghanistan].

Habit. Annual.

324. *Agrostis pilosula* Trin., Mém. Acad. Imp. Sci. Saint-Pétersbourg, Sér. 6, Sci. Math., Seconde Pt. Sci. Nat. 6, 4(3–4): 372. 1841 var. *pilosula*

Agrostis pilosula Trin. var. *wallichiana* (Steud.) Bor, Kew Bull. 1954: 459. 1954

Agrostis pilosula Trin. f. *wallichiana* (Steud.) Bhattacharya & S.K. Jain, Bull. Bot. Surv. India 25(1–4): 210. 1985 (“1983”)

Calamagrostis pilosula (Trin.) Hook. f. var. *wallichiana* (Steud.) Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 264. 1896

Agrostis wallichiana Steud., Syn. Pl. Glumac. 1: 174. 1854. Type: Himalaya; *Wallich* (Numer. List [Wallich] no. 3775a)

Agrostis royleana Trin., Mém. Acad. Imp. Sci. Saint-Pétersbourg, Sér. 6, Sci. Math., Seconde Pt. Sci. Nat. 6, 4(3–4): 371. 1841. Type: India; *Royle s.n.* (LE).

Agrostis ciliata Trin., Mém. Acad. Imp. Sci. Saint-Pétersbourg, Sér. 6, Sci. Math., Seconde Pt. Sci. Nat. 6, 4(3–4): 373. 1841. Type: India

Calamagrostis ciliata Nees ex Steud., Syn. Pl. Glumac. 1: 193. 1854. Type: Nepal; *Royle* 67, 71 & 303

Calamagrostis hookeriana Steud., Syn. Pl. Glumac. 1: 192. 1854. Type: Sri Lanka

Calamagrostis jacquemontii Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 265. 1896. Type: India: Kashmir; moist places on the Pyr Panjal; *Jacquemont no. 97*

Calamagrostis neesii Steud., Syn. Pl. Glumac. 1: 193. 1854. Type: Nepal; *Royle* 72

Agrostis pilosula Trin. var. *alpestris* (Hook. f.) Veldkamp, Blumea 28(1): 203. 1982

Calamagrostis pilosula (Trin.) Hook. f. var. *alpestris* Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 264. 1896. Type: Kashmir to Sikkim, alt. 11000–15000 ft.

Calamagrostis pilosula (Trin.) Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 263. 1896

Calamagrostis pilosula (Trin.) Hook. f. var. *ciliata* (Trin.) Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 264. 1896

Lachnagrostis ciliata Trin., Mém. Acad. Imp. Sci. Saint-Pétersbourg, Sér. 6, Sci. Math., Seconde Pt. Sci. Nat. 6, 4(3–4): 373. 1841, pro. syn., nom. nud. Type: “Ind. orient.”

- Calamagrostis pilosula* (Trin.) Hook. f. var. *scabra* Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 264. 1896. Type: India: in woods at about 7000–10000 ft., Kashmir to Sikkim. Hack. in *Herb. Duthie n. 10,088*, as *Agrostis bicuspidata* Hack. in *Herb. Duthie 7583*, as *Agrostis royleana* Nees in *Herb. Royle s.n.*, as *Lachnagrostis scabra*.
Calamagrostis roylei Nees ex Steud., Syn. Pl. Glumac. 1: 193. 1854. Type: Nepal
Deyeuxia royleana (Trin.) Trimen, Syst. Cat. Fl. Pl. Ceylon 108. 1885
Lachnagrostis royleana Trin., Mém. Acad. Imp. Sci. Saint-Pétersbourg, Sér. 6, Sci. Math., Seconde Pt. Sci. Nat. 6, 4(3–4): 371. 1841, pro. syn., nom. nud. Type: “In Royle Herb. Ind. reg. mont. sup. no. 266”
Lachnagrostis scabra Nees ex Trin., Mém. Acad. Imp. Sci. Saint-Pétersbourg, Sér. 6, Sci. Math., Seconde Pt. Sci. Nat. 6, 4(3–4): 372. 1841, pro. syn., nom. nud. Type: “Ind. orient. reg. mont. super”; *Royle s.n.*
Agrostis pilosula Trin. var. *royleana* (Trin.) Bor, Kew Bull. 1954: 459. 1954, nom. illeg.
Agrostis tungnathii Bhattacharya & S.K. Jain, Bull. Bot. Surv. India 25(1–4): 204–205, f. 1. 1985 (“1983”). Type: India: Uttar Pradesh, Chamoli, on way to Tungnath, 12800 ft.; August 29, 1978; *Bhattacharya 1524A* (CAL).

Type. India; *Royle 72* (LE).

Distribution. Bihar, Himachal Pradesh, Jammu and Kashmir, Karnataka, Kerala, Sikkim, Tamil Nadu, Uttar Pradesh, Uttarakhand [Bhutan, China, Nepal, Pakistan, Sri Lanka].

Habit. Annual.

Remarks. Clayton et al. (2006 onwards) places *A. tungnathii* in synonymy here.

325. *Agrostis pilosula* Trin. var. *filifolia* Bor, Kew Bull. 1954: 459. 1954

Agrostis pilosula Trin. f. *filiifolia* (Bor) Bhattacharya & S.K. Jain, Bull. Bot. Surv. India 25(1–4): 210. 1985 (“1983”)

Syntypes. India: Madras, Silva cascade, Riverside Pulneys; June 1, 1898; *A.G. Bourne 1022*. Lidcot Valley, Kodaikanal, Pulney; July 10, 1898; *A.G. Bourne 3143*. Bear Shola Valley, Pulneys; June 21, 1901; *A.G. Bourne 1486*.

Distribution. Himachal Pradesh, Jammu and Kashmir, Tamil Nadu.

Habit. Annual.

326. *Agrostis pleiophylla* Mez, Repert. Spec. Nov. Regni Veg. 17: 301. 1921.

Lectotype. C.B. Clarke 26852; 31 Jul 1875; Sikkim: Darjeeling, 2280 m (B100448371) LT designated by B. Paszko and Soreng 2013, to supersede that by Noltie.

Distribution. Assam, Khasa Hills, Meghalaya, Sikkim.

Habit. Perennial.

Remarks. See Paszko and Soreng (2013) for a discussion of typification of this species. Taxonomic editor Soreng notes that this is not a synonym of *A. zenkeri*, but rather is a good taxon on its own.

327. *Agrostis schmidii* (Hook. f.) C.E.C. Fisch., Fl. Madras 3(10): 1810. 1934

Calamagrostis schmidii Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 264. 1896. Type: India: Tamil Nadu, Nilghiri Hills, Ootacamund; *Schmid s.n.*

Distribution. Tamil Nadu.

Habit. Perennial.

328. *Agrostis stolonifera* L., Sp. Pl. 1: 62. 1753

Agrostis alba sensu Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 254. 1896, non L., 1753

Type. “Habitat in Europa.” Lectotype: *Herb. A. van Royen, sheet no. 912.356–55* (L). LT designated by Widén in Fl. Fennica 5: 77. f. 28. 1971.

Distribution. Andhra Pradesh, Himachal Pradesh, Jammu and Kashmir, Kerala, Meghalaya, Punjab, Sikkim, Tamil Nadu, Uttar Pradesh [Bhutan, Myanmar, Nepal, Sri Lanka].

Habit. Perennial.

329. *Agrostis tripilifera* (Hook. f.) Forsan, ined.

Agrostis triaristata (Hook. f.) Bor, Grasses Burma, Ceylon, India and Pakistan 391. 1960, nom. later hom., non Knapp, 1804

Calamagrostis tripilifera Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 262. 1896. Syntypes. India: Sikkim, in the drier interior, 10000–13000 ft.; *J.D. Hooker s.n.*; *Clarke s.n.*, *King’s Collector*

Deyeuxia triaristata Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 266. 1896. Type: Sikkim Himalaya: in woods, Yeumtong, alt. 12000 ft.; *J.D. Hooker s.n.*

Deyeuxia tripilifera (Hook. f.) Keng, Sunyatsenia 6(1): 68. 1941

Distribution. Sikkim.

Habit. Perennial.

Remarks. This combination is accepted by Clayton et al. (2006 onwards) but appears not to be published. See also Paszko (2012b).

330. *Agrostis vinealis* Schreb., Spic. Fl. Lips. 47. 1771

Agrostis canina sensu Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 255. 1896, non L., 1753

Type. Germany: “In siccioribus ad Schoenfeld templum S. Theclae.”

Distribution. Tamil Nadu, Uttar Pradesh, Uttarakhand [Pakistan].

Habit. Perennial.

331. *Agrostis zenkeri* Trin., Mém. Acad. Imp. Sci. Saint-Pétersbourg, Sér. 6, Sci. Math., Seconde Pt. Sci. Nat. 6, 4(3–4): 363. 1841

Deyeuxia zenkeri (Trin.) Veldkamp, The Gardens' Bulletin Singapore 37(2): 219. 1984[1985].

Calamagrostis zenkeri (Trin.) Davidse, in M.D. Dassanayake et al. (eds.), Revised Handb. Fl. Ceylon 8: 107. 1994

Type. India: Tamil Nadu, Nilagiri; *Zenker s.n.* (LE-TRIN-1669.01).

Distribution. Tamil Nadu.

Habit. Perennial (perhaps annual?).

Remarks. Paszko argues that this species is properly placed in *Agrostis* (Paszko and Soreng 2013)

***Aira* L., Sp. Pl. 1: 63. 1753, nom. cons.**

Type. *Aira praecox* L. (typ. cons.)

332. *Aira caryophyllea* L., Sp. Pl. 1: 66. 1753

Type. “Habitat in Angliae, Germaniae, Galliae glareosis.” Lectotype: *Herb. Linn. No.* 85.22 (LINN). LT designated by Clayton in Milne-Redhead and Polhill (ed.), Fl. Trop. E. Africa, Gramineae 1: 84. 1970.

Distribution. Himachal Pradesh [China].

Habit. Annual.

***Alopecurus* L., Sp. Pl. 1: 60. 1753**

Lectotype. *Alopecurus pratensis* L. LT designated by Nash in N.L. Britton and A. Brown, Ill. Fl. N. U.S. ed. 2. 1: 191. 1913; affirmed by Hitchcock in Bull. U.S.D.A 772: 137. 1920.

333. *Alopecurus aequalis* Sobol., Fl. Petrop. 16. 1799

Alopecurus caespitosus Trin., Sp. Gram. [Trinius] 3(21): t. 241. 1829. Type: "Figura ad specimen Boreali-Americanum." NW America: Douglas; *J. Lindley s.n.* (LE-TRIN-1537.01).

Alopecurus diandrus Griff., Not. Pl. Asiat. 3: 11. 1851. Type: India: "Assam in ripas arenosis Brahmaputra fluminis rarus March 1836. It. Ass. 45."

Alopecurus aristulatus Michx., Fl. Bor.-Amer. (Michaux) 1: 43. 1803. Type: "Hab. in Paludosis Canadae"; *H. Pittier, T.A. Durand s.n.*

Alopecurus fulvus Sm., Engl. Bot. 21: t. 1467. 1805. Type: England: Swainsthorpe, four miles south of Norwich; *Stone s.n.*

Alopecurus subaristatus Pers., Syn. Pl. (Persoon) 1: 80. 1805, nom. superfl & illeg.

Type. "Habitat in locis uliginosis cum *Alopecurus geniculatus*, in lacubus natans est"; *Sobolewski s.n.* (LE).

Distribution. Assam, Jammu and Kashmir, Nagaland, Uttar Pradesh [Afghanistan, China, Nepal, Pakistan].

Habit. Annual or perennial.

Remarks. Records for Assam, Jammu and Kashmir, and Nagaland fide Naithani (1990).

334. *Alopecurus arundinaceus* Poir., Encycl. (Lamarck) 8: 776. 1808

Alopecurus ventricosus Pers., Syn. Pl. (Persoon) 1: 80. 1805, non Huds. 1778. Type: "Hab. in Gallia."

Type. "Cette plante est cultivate au Jardin des Plantes de Paris Jignore son lieu natal. (herb. Desfont.)"

Distribution. Jammu and Kashmir, Uttar Pradesh [China, Pakistan].

Habit. Perennial.

335. *Alopecurus geniculatus* L., Sp. Pl. 1: 60. 1753

Type. "Habitat in Europae uliginosis." Lectotype: *Herb. Burser I: 26* (UPS). LT designated by Cope in Cafferty et al. (ed.), *Taxon* 49: 245. 2000.

Distribution. Uttar Pradesh, Uttarakhand [Afghanistan, Nepal].

Habit. Perennial.

336. *Alopecurus himalaicus* Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 238. 1896

Type. India: Kashmir and Dras, alt. 10000–14500 ft.; *Falconer s.n.* (K).

Distribution. Jammu and Kashmir [Afghanistan, China, Pakistan].

Habit. Perennial.

337. *Alopecurus myosuroides* Huds., Fl. Angl. (Hudson) 23. 1762

Alopecurus agrestis L., Sp. Pl., ed. 2. 1: 89. 1762. Type: “Habitat in Europa australi.”
Lectotype: *Hudson 29, Herb. Linn. No. 82.2* (LINN). LT designated by Cope in
Cafferty et al. (ed.), *Taxon* 49: 245. 2000.

Type. “Habitat in arvis, et ad vias”; *Hudson s.n.*

Distribution. Jammu and Kashmir, Nagaland [Afghanistan, Pakistan].

Habit. Annual.

338. *Alopecurus nepalensis* Trin. ex Steud., Syn. Pl. Glumac. 1: 148. 1854

Alopecurus borii Tzvelev, Vasailchenko, Nov. Syst. Plant Vasc. 8: 21. 1971. Type: Turcomania, in valley fl. Amu-Darja, 15 km ad astros versus urb. Czardzhou; 8 May 1958, *T. Nadezhina s.n.* (LE)

Type. Nepal; *Wallich* (Numer. List [Wallich] no. 3780).

Distribution. Jammu and Kashmir, Uttar Pradesh [Nepal, Pakistan].

Habit. Annual.

Remarks. Taxonomic editor Soreng notes that Doğan (1999) places *A. borii* in the synonymy of *A. nepalensis*.

***Aniselytron* Merr., Philipp. J. Sci., C. 5: 328. 1910**

Type. *Aniselytron agrostoides* Merr.

339. *Aniselytron treutleri* (Kuntze) Soják, Cas. Nar. Muz. Praze, Rada Prir. 148(3–4): 202. 1980

Milium treutleri Kuntze, Revis. Gen. Pl. 780. 1891. Type: India: Sikkim: Tanglo, beim Dorf Shimong, 10500 ft.; August 5, 1874; *Von Treutler 486* (K).

Calamagrostis treutleri (Kuntze) U. Shukla, non Govaerts. Grasses N.E. India 51. 1996.

Deyeuxia treutleri (Kuntze) Stapf, non Rauschert. Hooker's Icones Plantarum 24(4): pl. 2396. 1895.

Neaulacolepis treutleri (Kuntze) Rauschert. Taxon 31(3): 561. 1982.

Aniselytron treutleri (Kuntze) Bennet & Raizada, Indian Forester 107(7): 434. 1981, isonym, nom. inval.

Distribution. Sikkim, West Bengal [Bhutan, China, Myanmar].

Habit. Perennial.

***Anthoxanthum* L., Sp. Pl. 1: 28. 1753**

Lectotype. *Anthoxanthum odoratum* L. LT designated by Nash in N.L. Britton et A. Brown, Ill. Fl. N. U.S. ed. 2. 1: 171. 1913; affirmed by Hitchcock, Bull. U.S.D.A 772: 201. 1920.

340. *Anthoxanthum borii* S.K. Jain & D.C. Pal, J. Bombay Nat. Hist. Soc. 72: 92. 1975

Type. India: Tamil Nadu, Palnis, Pambar Stream near Shenthadikanal; December 6, 1898; *Bourne 1954* (CAL).

Distribution. Kerala, Tamil Nadu.

Habit. Perennial.

Remarks. Record from Tamil Nadu fide Naithani (1990).

341. *Anthoxanthum flexuosum* (Hook. f.) Veldkamp, Blumea 30(2): 347. 1985

Hierochloe flexuosa Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 222. 1896. Type: India: Sikkim Himalaya, Bijean; *King's collector s.n.* (K).

Distribution. Sikkim [Bhutan, China].

Habit. Perennial.

342. *Anthoxanthum hookeri* (Griseb.) Rendle, J. Linn. Soc., Bot. 36: 380. 1904

Ataxia hookeri Griseb., Nachr. Königl. Ges. Wiss. Georg-Augusts-Univ. 77. 1868.

Type: India: Sikkim, 9000–12000 ft.; *J.D. Hooker Ataxia no. 2*

Hierochloe hookeri (Griseb.) Maxim., Bull. Acad. Imp. Sci. Saint-Pétersbourg 32: 627. 1888

Hierochloe hookeri (Griseb.) C.B. Clarke ex Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 223. 1896, isonym, non (Griseb) Maxim., 1888

Distribution. Tamil Nadu, Sikkim [Bhutan, China, Myanmar, Nepal].

Habit. Perennial.

343. *Anthoxanthum horsfieldii* (Kunth ex Bennett) Mez, Repert. Spec. Nov. Regni Veg. 17: 291. 1921

Ataxia horsfieldii Kunth ex Bennett, Pl. Jav. Rar. (Bennett) 8, pl. 3. 1838

Hierochloe horsfieldii (Kunth ex Benn.) Maxim., Diagn. Pl. Nov. Asiat. 7: 930. 1888

Anthoxanthum formosanum Honda, Bot. Mag. (Tokyo) 40(474): 318. 1926

Anthoxanthum horsfieldii var. *formosanum* (Honda) Veldkamp, J. Jap. Bot. 68(6): 344. 1993

Anthoxanthum horsfieldii var. *luzoniense* (Merr.) Y. Schouten, Blumea 30(2): 337. 1985

Anthoxanthum japonicum ssp. *luzoniense* (Merr.) T. Koyama, Grass. Jap. Neighb. Reg. 486. 1987

Anthoxanthum luzoniense Merr., Philipp. J. Sci. 1(Suppl.): 178. 1906

Anthoxanthum horsfieldii var. *viridescens* (Honda) Veldkamp, J. Jap. Bot. 68(6): 344. 1993

Anthoxanthum viridescens Honda, Bot. Mag. (Tokyo) 41: 379. 1927

Anthoxanthum clarkei (Hook. f.) Ohwi, Bull. Tokyo Sci. Mus. 18: 8. 1947

Hierochloe clarkei Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 223. 1896. Type: India: Khasia Hills, Lailan Kote, alt. 5500; *C.B. Clarke s.n.*

Distribution. Assam, Meghalaya, Sikkim [China].

Habit. Perennial.

344. *Anthoxanthum khasiana* (C.B. Clarke) Ohwi, Bulletin of the Tokyo Science Museum 18: 8. 1947

Hierochloe khasiana C.B. Clarke ex Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 223. 1896. Type: India: Khasia Hills, alt. 4500–6000 ft.; *C.B. Clarke s.n.*

Distribution. Meghalaya.

Habit. Perennial.

345. *Anthoxanthum laxum* (R. Br. ex Hook. f.) Veldkamp, Blumea 30(2): 348. 1985*Hierochloe laxa* R. Br. ex Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 222. 1896.Type: Western Himalaya, Kashmir, from alt. 10000–12000 ft. to Kumaon, alt. 12000–16000 ft.; *R. Brown* (Numer. List [Wallich] no. 3796)**Distribution.** Jammu and Kashmir, Uttar Pradesh [Pakistan].**Habit.** Perennial.**346. *Anthoxanthum odoratum* L., Sp. Pl. 1: 28. 1753****Type.** “Habitat in Europae pratis.” Lectotype: *Herb. Linn. No. 46.1* (LINN). LT designated by Cope in Jarvis et al. (ed.), *Regnum Veg.* 127: 19. 1993.**Distribution.** Himachal Pradesh, Meghalaya, Tamil Nadu, Uttar Pradesh, Uttarakhand [China, Pakistan].**Habit.** Perennial.**347. *Anthoxanthum sikkimense* (Maxim.) Ohwi, Bull. Tokyo Sci. Mus. 18: 8. 1947***Hierochloe sikkimensis* Maxim., Bull. Acad. Imp. Sci. Saint-Pétersbourg 32: 626. 1888.Type: India: Sikkim; *J.D. Hooker & T. Thomson Ataxia 1**Anthoxanthum gracillimum* (Hook. f.) Mez, Repert. Spec. Nov. Regni Veg. 17: 291. 1921*Hierochloe gracillima* Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 223. 1896. Type: India: Sikkim, alt. 10000–11000 ft.; *J.D. Hooker s.n.***Distribution.** Sikkim [China, Nepal].**Habit.** Perennial.**348. *Anthoxanthum tibeticum* (Bor) Veldkamp, Blumea 30(2): 350. 1985***Hierochloe tibetica* Bor, Kew Bull. 1953: 271. 1953**Distribution.** Sikkim. [China].**Habit.** Perennial.**Remarks.** Record in India fide Naithani (1990).

Arctopoa* (Griseb.) Prob., Novosti Sist. Vyssh. Rast. 11: 49. 1974Glyceria* sect. *Arctopoa* Griseb., in Ledeb., Fl. Ross. 4(13): 392 1852**Type.** *Glyceria glumaris* (Trin.) Griseb. == *Arctopoa eminens* (J. Presl) Prob.**349. *Arctopoa tibetica* (Munro ex Stapf) Prob., Novosti Sist. Vyssh. Rast. 11: 52 1974***Poa tibetica* Munro ex Stapf, Fl. Brit. India (J.D. Hooker). 7(22): 339. 1896 var. tibetica. Syntypes: China: Western Tibet, Piti, alt. 9000–16000 ft.; *Jacquemont s.n.* Ladakh; *Thomson s.n.* Plains of Tibet north of Kumaon, alt. 15000 ft.; *R. Strachey & J.E. Winterbottom s.n.***Distribution.** Himachal Pradesh, Jammu and Kashmir, Uttar Pradesh [China, Nepal, Pakistan].**Habit.** Perennial.**Remarks.** Taxonomic editor Soreng notes that *Arctopoa* has been demonstrated be of old reticulate origin (Gillespie et al. 2008), derived from an extinct parent (chloroplast donor) from an early lineage of *Poa* crossed with a parent from a lineage outside *Poa* but related to *Cinna* and *Arctagrostis* (nrDNA donor). The genus has diversified and now includes at least three well marked and stable species, although Probatova (2003) recognizes eight.**350. *Arctopoa tibetica* (Munro ex Stapf) Prob. var. *aristulata* (Stapf) E.A. Kellogg, comb. nov.**

urn:lsid:ipni.org:names:77212054-1

Poa tibetica Munro ex Stapf var. *aristulata* Stapf, Fl. Brit. India (J.D. Hooker). 7(22): 339. 1896. Type: Eastern Tibet, North of Sikkim, alt. 16000–17000 ft.; *J.D. Hooker s.n.* *Poa pseudotibetica* Noltie, Edinburgh Journal of Botany 57(2): 279–281, f. 1A–D. 2000. (Edinburgh J. Bot.). Type: Sikkim; Chholhamoo, marshy meadows, 17820 ft, 6 Aug. 1972, *Pradham, Norbu & Naku* 206 (HT: E00393981)**Distribution.** Sikkim [China, Pakistan].**Habit.** Perennial.**Remarks.** Taxonomic editor Soreng notes that recognizing this variety requires a new combination in *Arctopoa*, which we make here. It could also be recognized as a separate species but he does not feel that this is warranted.

***Avena* L., Sp. Pl. 1: 79. 1753**

Lectotype. *Avena sativa* L. LT designated by Nash in N.L. Britton et A. Brown, Ill. Fl. N. U.S. ed. 2. 1: 218. 1913; affirmed by Hitchcock, Bull. U.S.D.A. 772: 110. 1920.

351. *Avena barbata* Pott ex Link in Schrader, J. Bot. (Schrader) 2: 315. 1799

Lectotype. Lusitania, ex cult. mea; July 1796; *Pott s.n.* (LE).

Distribution. Tamil Nadu, Uttar Pradesh [Nepal, Pakistan].

Habit. Annual.

352. *Avena byzantina* C. Koch, Linnaea 21: 392. 1848

Type. “Ich erhielt sie auch unter den Thirkenschen aus der Umgegend von Brussa gesammelten Pflanzen.”

Distribution. Bihar, Tamil Nadu, Himachal Pradesh [Pakistan].

Habit. Annual.

Remarks. Taxonomic editor Soreng notes that this is a Mediterranean taxon, presumably introduced to India in cultivation. It was placed in *Avena sativa* by Baum (1977). This species does grow outside of cultivation as a weed in other crops and disturbed places around where it is cultivated. It is recognized as a separate species by some taxonomists (e.g. by Chiapella and Amarilla (2012)), based on its slender, non-geniculate awn on both florets. Other authors (e.g. <http://www.emplantbase.org/home.html>) consider it as a subspecies – *Avena sativa* subsp. *byzantina* (K. Koch) Romero Zarco (Euro+Med Plantbase on-line). The latter treatment seems preferable.

353. *Avena fatua* L., Sp. Pl. 1: 80. 1753

Avena fatua L. var. *pilosissima* Gray, Nat. Arr. Brit. Pl. 2: 131. 1821. Type: Corn fields

Avena fatua L. var. *glabrata* Peterm., Fl. Bienitz. 13. 1841

Avena sativa L. var. *sericea* Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 275. 1896.

Type: Bhutan; *Griffith s.n.*

Avena fatua L. var. *pilosa* Syme, Rep. Bot. Exch. Club 1871: 20. 1872. Type: Beanfield Claygate, Surrey; *H.C. Watson s.n.*

Avena fatua L. ssp. *meridionalis* Malzev, Bull. Appl. Bot. Gen. Pl. Br., Suppl. 38: 304. 1930

Avena meridionalis (Malzev) Roshev., Fl. Turkmen. 1: 105. 1932

Type. “Habitat in Europae agris inter segetes.” Lectotype: *Herb. Linn. No. 95.9* (LINN). LT designated by Hubbard in Milne-Redhead and Polhill (ed.), *Fl. Trop. E. Africa, Gramineae* 1: 82. 1970.

Distribution. Arunachal Pradesh, Assam, Himachal Pradesh, Jammu and Kashmir, Meghalaya, Punjab, Rajasthan, Sikkim, Tamil Nadu, Uttar Pradesh, Uttarakhand, West Bengal [Afghanistan, Bhutan, China, Nepal, Pakistan].

Habit. Annual.

Remarks. Record from Jammu and Kashmir fide Naithani (1990).

354. *Avena sativa* L., *Sp. Pl.* 1: 79. 1753

Lectotype. *Herb. Clifford: 25, Avena 1* (BM-000557678). LT designated by Baum in *Taxon* 23: 579. f. 1. 1974.

Distribution. Bihar, Himachal Pradesh, Maharashtra, Madhya Pradesh, Punjab, Odisha, Sikkim, Tamil Nadu, Uttar Pradesh, West Bengal [China].

Habit. Annual.

Remarks. It is unclear whether this species is naturalized or only cultivated.

355. *Avena sterilis* L., *Sp. Pl., ed. 2.* 1: 118. 1762 var. *sterilis*

Type. “Habitat in Hispania. Alströmer.” Lectotype: Alströmer 7, *Herb. Linn. No. 95.12* (LINN). LT designated by Hubbard in Milne-Redhead and Polhill (ed.), *Fl. Trop. E. Africa, Gramineae* 1 : 84. 1970.

Distribution. Maharashtra, Tamil Nadu, Uttar Pradesh, Uttarakhand [Pakistan].

Habit. Annual.

356. *Avena sterilis* L. var. *ludoviciana* (Durieu) Gillet & Magne, *Nouv. Fl. Franc., ed. 3*, 532. 1875

Avena ludoviciana Durieu, *Actes Soc. Linn. Bordeaux* 20: 41. 1855. Type: “Cette espece est assez frequente dans les environs de Bordeaux, aux lieux deja cites, elle semble preferer les terrain calcaires aux siliceux, quand l’A.” France: Bordeaux; May 27, 1855; *G. Lespinasse s.n.* (LE). [France]: de la Garonne: Bordeaux; July 6 1855; *F. Schultz 386 herbarium normale. Cent. 4.* (LE).

Distribution. Delhi, Jammu and Kashmir, Rajasthan, Tamil Nadu, Uttar Pradesh [Pakistan].

Habit. Annual.

Remarks. Records for Jammu and Kashmir and Uttar Pradesh fide Naithani (1990).

***Briza* L., Sp. Pl. 1: 70. 1753**

Macrobriza (Tzvelev) Tzvelev Komarovskie Čtenija (Moscow and Leningrad) 37: 32
1987

Lectotype. *Briza media* L. LT designated by Hitchcock, Bull. U.S.D.A. 772: 45. 1920.

357. *Briza maxima* L., Sp. Pl. 1: 70. 1753

Macrobriza maxima (L.) Tzvelev., Bot. Zhurn. (Moscow and Leningrad) 78(10): 91
1993

Type. "Habitat in Italia, Lusitania." Lectotype: *Seguier, Herb. Linn. No. 88.6* (LINN). LT designated by Hubbard in Milne-Redhead and Polhill (ed.), Fl. Trop. E. Africa, Gramineae 1: 53. 1970.

Distribution. Karnataka, Meghalaya, Tamil Nadu [China, Pakistan].

Habit. Annual.

358. *Briza media* L., Sp. Pl. 1: 70. 1753

Type. "Habitat in Europae partis [sic] siccioribus." Lectotype: *Herb. Linn. No. 88.5* (LINN). LT designated by Meikle in Fl. Cyprus 2: 1720. 1985.

Distribution. Himachal Pradesh, Jammu and Kashmir, Tamil Nadu, Sikkim, Uttar Pradesh [Bhutan, Nepal, Pakistan].

Habit. Perennial.

359. *Briza minor* L., Sp. Pl. 1: 70. 1753

Type. "Habitat in Helvetia, Italia." Lectotype: *Herb. Linn. No. 88.1* (LINN). LT designated by Hubbard in Milne-Redhead and Polhill (ed.), Fl. Trop. E. Africa, Gramineae 1: 53. 1970.

Distribution. Himachal Pradesh, Tamil Nadu. Perhaps naturalized. [China].

Habit. Annual.

Remarks. Possibly naturalized. Records for India fide Naithani (1990).

***Calamagrostis* Adans., Fam. Pl. (Adanson) 2: 31, 530. 1763**

Deyeuxia Clarion ex P. Beauv., Ess. Agrostogr. 43. 1812. LT: *Deyeuxia montana* P. Beauv. (*D. pyramidalis* (Host.) Veldkamp), designated by Nilés & Chase, Contr. US Natl. Herb. 24: 169. 1925.

Type. *Calamagrostis lanceolata* Roth (Tent. Fl. Germ. 2: 34. 1789) (*Arundo calamagrostis* L.).

Notes. The treatment here of *Calamagrostis* and *Deyeuxia* should be considered provisional as the generic boundaries are unclear. The two are considered distinct by Lu et al. (2006) and Kellogg (2015b). Taxonomic editor Soreng notes that *Calamagrostis* is deeply polyphyletic (Saarela et al. 2010). See also Paszko and Chen (2013), and Paszko and Ma (2011).

360. *Calamagrostis arundinacea* (L.) Roth, Tent. Fl. Germ. 1: 33. 1788

Agrostis arundinacea L., Sp. Pl. 1: 61. 1753. Type: “Habitat in Europae monticulis sylvosis glareosis juniperitis.” Lectotype: *Amman* 26, *Herb. Linn. No.* 84.7 (LINN).

LT designated by Veldkamp in Cafferty et al. (ed.), *Taxon* 49: 243. 2000.

Deyeuxia sylvatica (Schrad.) Kunth, Révis. Gramin. 1: 77. 1829

Calamagrostis pyramidalis Host., Icones et Descriptiones Graminum Austriacorum 4: 28, pl. 49. 1809. (Icon. Descr. Gram. Austriac.). Type: In sylvis Pannoniae...Bruck an der Leitha...Junio, Julio, *Anon. s.n.* (W?)

Deyeuxia pyramidalis (Host.) Veldkamp, *Blumea* 37(1): 230. 1992

Deyeuxia montana P. Beauv., *Ess. Agrostogr.* 43. 1812.

Arundo montana Gaudin, nom. illeg. superfl. for *Agrostis arundinacea* L.

Arundo sylvatica Schrad., Fl. Germ. (Schrad.) 1: 218. t. 4. f. 7. 1806 (as “Siluativa”), nom. superfl. & illeg.

Deyeuxia arundinacea (L.) Jansen, *Acta Bot. Neerl.* 1: 470. 1952, nom. illeg. hom., non P. Beauv., 1812

Distribution. Jammu and Kashmir [China, Pakistan].

Habit. Perennial.

Remarks. Taxonomic editor Soreng notes that *Deyeuxia arundinacea* P. Beauv. has no connection with any Indian species and is equal to *Ampelodesmos mauritanicus* (Poir.) T. Durand & Schinz.

361. *Calamagrostis canadensis* (Michx.) Beauv., *Ess. Agrost.* 15: 157. 1812

Calamagrostis cinnoides Barton, *Compend. Fl. Phila.* 1:45. 1818.

Distribution. Jammu and Kashmir, Uttar Pradesh.

Habit. Perennial.

Remarks. Distribution in India fide Naithani (1990). However, these records are dubious. Taxonomic editor Soreng notes that the only correct name for this as misapplied is *Calamagrostis nuttalliana* Steud., but he remains skeptical that this should be in Asia at all.

362. *Calamagrostis debilis* Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 262. 1896

Deyeuxia debilis (Hook. f.) Veldkamp, Gard. Bull. Singapore 37(2): 220. 1985

Agrostis debilis (Hook. f.) Bor, Grasses Burma, Ceylon, India and Pakistan. 387. 1960,
non Poir, 1810

Agrostis neodebilis Bennet & Raizada, Indian Forester 107(7): 433. 1981

Type. India: Sikkim: Chola, 9800 ft.; *J.D. Hooker s.n.* (K).

Distribution. Sikkim [China].

Habit. Perennial.

363. *Calamagrostis decora* Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 260. 1896

Type. India: Kashmir, Astor Valley, alt. 9000–10000 ft.; *J.F. Duthie no.* 12600.

Distribution. Jammu and Kashmir [Pakistan].

Habit. Perennial.

364. *Calamagrostis diffusa* (Keng) Keng f., Bull. Bot. Res., Harbin 4(3): 195–196. 1984

Deyeuxia diffusa Keng, Sunyatsenia 6(2): 94–95. 1941. Type: China: Yunnan: 1900–2750 m, *E.E. Maire* 6863 p.p.

Agrostis nagensis Bor, Kew Bull. 1954: 497. 1954. Type: India: Assam, Naga Hills, Japvo, alt. 7500 ft.; September 28, 1935; *N.L. Bor* 6449 (K).

Calamagrostis nagensis (Bor) Uniyal, J. Econ. Taxon. Bot. 8(1): 235. 1986

Deyeuxia nagensis (Bor) Veldkamp, J. Econ. Taxon. Bot. 13(1): 74. 1989

Aulacolepis petelotii Hitchc., J. Wash. Acad. Sci. 24(7): 291. 1934 (= *Agrostis abnormis* Munro ex Hook. f., Fl. Brit. India 7(22): 268. 1897[1896]; nom. inval., as syn.

Deyeuxia abnormis Munro ex Hook. f.)

Agrostis petelotii (Hitchc.) Noltie, Edinburgh J. Bot. 56(3): 386–387. 1999

Calamagrostis petelotii (Hitchc.) Govaerts, World Checkl. Seed Pl. 3(1): 11. 1999

Deyeuxia petelotii (Hitchc.) S.M. Phillips & W.L. Chen, Novon 13(3): 319. 2003

Aniselytron petelotii (Hitchc.) Soják, Cas. Nar. Muz. Praze, Rada Prir. 148(3–4): 202. 1980

Neoaulepis petelotii (Hitchc.) Rauschert, Taxon 31(3): 561. 1982

Deyeuxia abnormis Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 268. 1896. Syntypes: Sikkim Himalaya: Lachong Valley, alt. 9000 ft.; *J.D. Hooker s.n.* 5000–5500 ft.; *Griffith s.n.*

Agrostis continentalis Hand.-Mazz., Symb. Sin. 7(5): 1297, pl. 40, f. 2. 1936

Anisachne gracilis Keng, J. Wash. Acad. Sci. 48(4): 117–118, f. 2. 1958

Deyeuxia borii Bhattacharya & S.K. Jain, Bull. Bot. Surv. India 25(1–4): 208. 1985 (“1983”), nom. superfl. & illeg.

Distribution. Meghalaya, Nagaland [Bhutan, China, Nepal].

Habit. Perennial.

Remarks. Record for Nagaland fide Naithani (1990). See Paszko and Ma (2011) for discussion of *Deyeuxia abnormis* and its synonyms.

365. *Calamagrostis emodensis* Griseb., Nachr. Königl. Ges. Wiss. Georg-Augusts-Univ. 80. 1868

Type. India: Garhwal, alt. 9000–15400 ft., Sikkim, 6000–9000 ft.; *J.D. Hooker s.n.*

Distribution. Jammu and Kashmir, Uttar Pradesh, Uttarakhand [Bhutan, China, Pakistan].

Habit. Perennial.

366. *Calamagrostis epigejos* (L.) Roth, Tent. Fl. Germ. 1: 34. 1788

Arundo epigejos L., Sp. Pl. 1: 81. 1753. Type: “Habitat in Europae collibus aridis.” Lectotype: *Herb. Linn. No. 97.11* (LINN). LT designated by Hubbard in Milne-Redhead and Polhill (ed.), Fl. Trop. E. Africa, Gramineae 1: 102. 1970.

Calamagrostis macrolepis Litv., Bot. Mater. Gerb. Glavn. Bot. Sada RSFSR 2: 125. 1921. Type: Turkestan, Dominium Buchara, Schugnan District, Anderob Province; *S. Korschinsky s.n.*

Calamagrostis epigejos (L.) Roth ssp. *macrolepis* (Litv.) Tzvelev

Calamagrostis gigantea Roshev., Izv. Bot. Sada Akad. Nauk S.S.S.R. 30: 294. 1932, nom. illeg. hom., non Nutt., 1835. Type: Province Semiretschensk, distr. Lepsinsk in parties ad ripam lacus Alakul prope vicum Ksyl-agatch; July 10, 1928; *N. Pavlov 671*, based on *Calamagrostis epigeios* var. *gigantea* Roshev.

Distribution. Jammu and Kashmir, Sikkim, Uttar Pradesh, West Bengal [China].

Remarks. Records for Sikkim, Uttar Pradesh, and West Bengal fide Naithani (1990).

367. *Calamagrostis gamblei* Paszko, Polish Bot. J. 57: 327, 2012

Type. Uttarakhand prov., [Dehradun distr.], Jaunsar, Mundali, 7000 ft; Oct 1894, *J.S. Gamble 25249* (K; IT: CAL).

Distribution. Uttarakhand.

Habit. Perennial.

Remarks. See discussion in Paszko (2012a).

368. *Calamagrostis garhwalensis* C.E. Hubb. & Bor, Indian Forester 68(7): 355. 1942

Type. Himalaya, Kedarnath, alt. 10000–11000 ft.; October 19, 1938; *C.E. Hubbard & Bor 8945?* (DD).

Distribution. Himachal Pradesh, Uttar Pradesh, Uttarakhand [Nepal, Pakistan].

Habit. Perennial.

Remarks. Records from Himachal Pradesh, Uttar Pradesh, and Nepal fide Naithani (1990).

369. *Calamagrostis holciformis* Jaub. & Spach, Ill. Pl. Orient. 4: 61. t. 340. 1851

Deyeuxia holciformis (Jaub. & Spach) Bor, Grasses Burma, Ceylon, India and Pakistan 398. 1960

Deyeuxia compacta Munro ex Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 267. 1896.

Type: Western Tibet; *Jacquemont s.n.* Nubra Valley, alt. 14000–16000 ft.; *Thomson s.n.* Kumaon, alt. 15000 ft.; *R. Strachey & J.E. Winterbottom Deyeuxia no. 1*

Calamagrostis compacta (Munro) Hack. ex Paulsen, Vidensk. Meddel. Dansk Naturhist. Foren. Kjobenhavn 167. 1903

Calamagrostis tianschanica Rupr., Sert. Tianschan. 34. 1869. Type: Not given.

Type. “In humidis altissimis Emodi Thibetani legit Jacquemont August auni 1830.” (P).

Distribution. Jammu and Kashmir [Afghanistan, Pakistan].

Habit. Perennial.

370. *Calamagrostis kashmiriana* (Bor) Govaerts, World Checklist of Seed Plants 3(1): 10. 1999

Deyeuxia kashmiriana Bor, Kew Bull. 1954: 558. 1955

Deyeuxia hackelii Bor, Kew Bull. 1954: 497. 1954, nom. later hom., non (Lillo ex Stuck.) Parodi, 1953. Type: India: Kashmir, Astor Valley, above Doian, alt. 10500–11600 ft.; August 14, 1892; *J.F. Duthie 12454* (K).

Distribution. Jammu and Kashmir.

Habit. Perennial.

371. *Calamagrostis lahulensis* G. Singh, Taxon 33(1): 94. 1984

Deyeuxia pulchella Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 268. 1896. Type: Himalaya: Kumaon and Garhwal, alt. 10000–15000 ft., Sikkim, alt. 14000–16000 ft.; *J.D. Hooker Deyeuxia no. 10*

Calamagrostis pulchella Griseb., Nachr. Königl. Ges. Wiss. Georg-Augusts-Univ. 78. 1868, nom. illeg., non Saut. ex Rchb., 1830

Distribution. Himachal Pradesh, Jammu and Kashmir, Sikkim, Uttar Pradesh, Uttarakhand [Bhutan, China, Nepal].

Habit. Perennial.

372. *Calamagrostis nagarum* (Bor) G. Singh, *Taxon* 33(1): 94. 1984

Deyeuxia nagarum Bor, Indian Forest Rec., Bot. n. s. 1(3): 69. 1938. Type: India: Assam, Naga Hills, Japvo, alt. 9500 ft.; *N.L. Bor s.n.* (K).

Distribution. Assam, Nagaland.

Habit. Perennial.

Remarks. Record from Nagaland fide Naithani (1990).

373. *Calamagrostis nivicola* (Hook. f.) Hand.-Mazz., *Symbolae Sinicae* 7(5): 1299. 1936

Deyeuxia nivicola Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 267. 1896. Type: India: Sikkim, Momay, 15000 ft.; *J.D. Hooker & Thomson Deyeuxia no. 4*

Distribution. Sikkim [Bhutan, China, Nepal].

Habit. Perennial.

374. *Calamagrostis pseudophragmites* (Haller f.) Koeler, *Descr. Gram.* (Koeler) 106. 1802 var. *pseudophragmites*

Arundo pseudophragmites Haller f., Arch. Bot. (Leipzig) 1, 2: 11. 1797. Type: “ubi vicina Saxifragae mutatae habitabat.”

Arundo littorea Schrad., Fl. Germ. (Schrader) 1: 212. t. 4. f. 2. 1806 (as “littorea”). Type: [Austria]: In arenosis litoralis austriaci litoribus. *Wulfen s.n.* [Austria]: et similibus locis in insulis Danubialibus; *Flugge s.n.*

Calamagrostis littorea (Schrad.) P. Beauv., Ess. Agrostogr. 15: 157. 1812

Calamagrostis laxa Host, Icon. Descr. Gram. Austriac. 4: 25. t. 43. 1809. Type: “In arenosis, praecipue ad Danubii, aliorumque fluviorum ripas.”

Calamagrostis nepalensis Nees ex Steud., Syn. Pl. Glumac. 1: 193. 1854. Type: Nepal; *Royle 288*

Calamagrostis onoei Franch. & Sav., Enum. Pl. Jap. 2: 598. 1879. Syntypes: Japan: in provincial Senano; *Dr. Rein s.n.* Sine loci indicatione e botanico japonensi Ono primum habuit; *Dr. Savatier s.n.*

Calamagrostis lanceolata sensu Aitch., J. Linn. Soc., Bot. 18: 107. 1880, non Roth, 1788

Distribution. Himachal Pradesh, Jammu and Kashmir [Bhutan, China, Nepal, Pakistan].

Habit. Perennial.

375. *Calamagrostis pseudophragmites* (Hall.f.) Koeler ssp. *tartarica* (Hook. f.) Tzvelev, Novosti Sist. Vyssh. Rast. 2: 42. 1965

Calamagrostis littorea (Schrad.) P. Beauv. var. *tartarica* Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 261. 1896. Type: Western Tibet; *J.D. Hooker & Thomson s.n.*

Calamagrostis pseudophragmites (Hall.f.) Koeler var. *tartarica* (Hook. f.) Bor, Grasses Burma, Ceylon, India and Pakistan 396. 1960

Calamagrostis hedinii Pilg., S. Tibet, Bot. 6(3): 93. 1922

Distribution. Himachal Pradesh, Jammu and Kashmir, Uttar Pradesh [Russia].

Habit. Perennial.

376. *Calamagrostis scabrescens* Griseb., Nachr. Königl. Ges. Wiss. Georg-Augusts-Univ. 79. 1868 var. *scabrescens*

Deyeuxia scabrescens (Griseb.) Munro ex Duthie in Atkins., Bot. Himalayan Distr. N. W. Prov. 623. 1882

Calamagrostis filiformis Griseb., Nachr. Königl. Ges. Wiss. Georg-Augusts-Univ. 79. 1868. Type: India: "H. or Sikkim 11–12000', H.[Hooker]: D[eyeuxia] nr. 3"

Deyeuxia filiformis (Griseb.) Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 268. 1896. Type: India: Sikkim, Lachen Valley, alt. 10000–12000 ft.; *J.D. Hooker s.n.*

Calamagrostis scabrescens Griseb. var. *humilis* Griseb., Nachr. Königl. Ges. Wiss. Georg-Augusts-Univ. 79. 1868. Type: India: Sikkim, Lachen Valley, alt. 10000–12000 ft.; *J.D. Hooker & Thomson Deyeuxia no. 2*

Deyeuxia scabrescens (Griseb.) Munro ex Duthie var. *humilis* (Griseb.) Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 268. 1896

Deyeuxia scabrescens (Griseb.) Munro ex C.B. Clarke, J. Linn. Soc., Bot. 25: 89, t. 39. 1889, non (Griseb.) Munro ex Duthie, 1882, isonym

Type. India: Sikkim, Lachen Valley, 10000–12000 ft.; *J.D. Hooker s.n.*

Distribution. Assam, Jammu and Kashmir, Sikkim, Manipur, Nagaland, Uttar Pradesh [Bhutan, China, Myanmar, Nepal, Pakistan].

Habit. Perennial.

377. *Calamagrostis scabrescens* Griseb. var. *elator* Griseb., Nachr. Königl. Ges. Wiss. Georg-Augusts-Univ. 79. 1868

Deyeuxia elator (Griseb.) Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 266. 1896

Type. India: Khasia Hills, alt. 5000–5500 ft.; J.D. Hooker *Deyuxia* no. 9.

Distribution. Meghalaya.

Habit. Perennial.

378. *Calamagrostis simlensis* (Bor) G. Singh, Taxon 33(1): 94. 1984

Deyeuxia simlensis Bor, Indian Forest Rec., Bot. n. s. 3: 149. 1941. Type: India: Simla; D.M. Strong s.n. (DD).

Distribution. Himachal Pradesh.

Habit. Perennial.

Remarks. Record for Himachal Pradesh fide Naithani (1990).

379. *Calamagrostis stoliczkae* Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 262. 1896

Type. Western Tibet: Zanskar, on the Pensi-la, alt. 12000–15000 ft.; *Stoliczka* s.n.

Distribution. Jammu and Kashmir, Uttar Pradesh [China]

Habit. Perennial.

380. *Calamagrostis tibetica* (Bor) Tzvelev, Rast. Tsentral. Azii 4: 86. 1968

Deyeuxia tibetica Bor, Kew Bull. 1949: 66. 1949. Type: India: Sikkim, Chakalunga, alt. 16000 ft.; June 1. 1915; *Rohmoo Lepcha* s.n. (K).

Distribution. Sikkim [China].

Habit. Perennial.

***Castellia* Tineo, Pl. Rar. Sicil. 2: 17. 1846**

Type. *Castellia tuberculata* Tineo.

381. *Castellia tuberculosa* (Moris) Bor, Indian Forester 74(3): 90. 1948

Catapodium tuberculosum Moris, Atti Riunione Sci. Ital. 481. 1841. Type: "Appartiene questa specie alla Sardegna occidentale, e vi fiorisce in April e in Maggio." Italy: South Sardinia; *Moris s.n.*

Desmazeria tuberculosa (Moris) Batt. & Trab., Fl. Alger (Battandier & Trabut) 100. 1884

Festuca tuberculosa (Moris) Coss. & Durieu., Expl. Sci. Algerie 2: 189, t. 14. 1856

Micropyrum tuberculosum (Moris) Pilg., Bot. Jahrb. Syst. 74(4): 567. 1949

Castellia tuberculata Tineo, Pl. Rar. Sicil. 2: 18. 1846. Type: "In arenosis vulcanicis. Linosa."

Festuca tuberculata (Tineo) Benth., J. Linn. Soc., Bot. 19: 128. 1881, isonym, non (Moris) Coss. & Durieu., 1856

Distribution. India [Pakistan].

Habit. Annual.

Remarks. Localities within India not recorded.

***Catabrosa* P. Beauv., Ess. Agrostogr. 97. 1812**

Lectotype. *Catabrosa aquatica* (L.) P. Beauv. (*Aira aquatica* L.) LT. designated by Nash in N.L. Britton et A. Brown, Ill. Fl. N. U.S. ed. 2. 1: 245. 1913; affirmed by Hitchcock, Bull. U.S.D.A. 772: 47. 1920.

**382. *Catabrosa aquatica* (L.) P. Beauv., Ess. Agrostogr. 97, 149. t. 19. f. 8. 1812
var. *aquatica***

Aira aquatica L., Sp. Pl. 1: 64. 1753. Type: "Habitat in Europae pascuis aquosis." Lectotype: *Herb. Linn. No. 85.6* (LINN). LT designated by Sherif & Siddiqi in El-Gadi (ed.), Fl. Libya 145: 84. 1988.

Colpodium aquaticum (L.) Trin., Mém. Acad. Imp. Sci. St.-Petersbourg, Sér. 6, Sci. Math. 1(4): 395. 1830

Glyceria aquatica (L.) J. Presl. & C. Presl., Fl. Čech. 25. 1819

Poa airoides Koeler, Descr. Gram. (Koeler) 194. 1802, nom. superfl & illeg. for *Aira aquatica* L.

Distribution. Jammu and Kashmir [Afghanistan, Pakistan].

Habit. Perennial.

383. *Catabrosa aquatica* (L.) P. Beauv. var. *angusta* Stapf, Fl. Brit. India (J.D. Hooker). 7(22): 311. 1896

Type. Western Tibet, Lanak Pass, alt. 15000–16000 ft.; *Thomson s.n.*

Distribution. Jammu and Kashmir [China, Pakistan].

Habit. Perennial.

384. *Catabrosa sikkimensis* Stapf, Fl. Brit. India (J.D. Hooker). 7(22): 311. 1896

Type. India: alpine Sikkim, alt. 17000 ft.; *Gammie s.n.*

Distribution. Jammu and Kashmir, Sikkim.

Habit. Presumed perennial.

Remarks. Taxonomic editor Soreng notes that Dickoré (1995) treats this as a synonym of *C. aquatica*.

***Catabrosella* (Tzvelev) Tzvelev, Bot. Zhurn. (Moscow & Leningrad) 50: 1320 (in obs.). 1965**

Colpodium subg. *Catabrosella* Tzvelev, Nov. Syst. Pl. Vasc. 1964: 12, 1964.

Type. *Catabrosella humilis* (M. Bieb.) Tzvelev (*Aira humilis* M. Bieb.).

385. *Catabrosella himalaica* (Hook. f.) Tzvelev, Novosti Sist. Vyssh. Rast. 1966: 32. 1966

Phippsia himalaica Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 240. 1896. Type: Alpine Western Himalaya: Kumaon, Barji-Khang Pass, alt. 14500 ft.; *R. Strachey & J.E. Winterbottom s.n.* Garhwal, Duder Glacier, alt. 13000–14000 ft.; *Duthie s.n.*

Catabrosa himalaica (Hook. f.) Stapf, Fl. Brit. India (J.D. Hooker). 7(22): 311. 1896

Colpodium himalaicum (Hook. f.) Bor, Grasses Burma, Ceylon, India and Pakistan 529. 1960

Distribution. Jammu and Kashmir, Uttar Pradesh, Uttarakhand [Pakistan].

Habit. Perennial.

Remarks. Taxonomic editor Soreng notes that *Colpodium trollii* Pilg. was placed in *Catabrosella himalaica* by Alexeev (1988) with some doubt. However, the species was described as 3(4)-flowered, and as no lemma vestiture was mentioned, presumably the type (if it is extant) has glabrous lemmas, so it probably is not *C. himalaica*. This also casts doubt on the synonymy of *Catabrosa trollii* (Pilg.) R.R. Stewart. Neither name is included here.

***Catapodium* Link, Hortus Berol. 1: 44 (“Catopodium”), 380. 1827**

Type. *Catapodium loliaceum* (Huds.) Link (*Poa loliacea* Huds.).

386. *Catapodium rigidum* (L.) C.E. Hubbard in Dony, Fl. Bedfordshire 437. 1953

Poa rigida L., Cent. Pl. I 5. 1755. Type: “Habitat in Gallia, Anglia.” Lectotype: “Gramen panicula multiplici” in Bauhin, Prodr. Theatri Bot. 6. 6. 1620. LT designated by Stace in Cafferty et al. (ed.) Taxon 49: 256. 2000.

Desmazeria rigida (L.) Tutin & Stace in Tutin et al., Fl. Eur. 5: 158. 1980.

Festuca rigida (L.) Kunth Révis. Gramin. 2: 392. 1831, non Roth, 1797

Scleropoa rigida (L.) Griseb., Sp. Fl. Rumel 2: 431. 1845

Distribution. Jammu and Kashmir. Possibly naturalized; native to Europe.

Habit. Annual.

Remarks. Record for India fide Naithani (1990).

***Cyathopus* Stapf, Hooker’s Icon. Pl. 24: sub t. 2395. 1895**

Type. *Cyathopus sikkimensis* Stapf.

387. *Cyathopus sikkimensis* Stapf, Hooker’s Icon. Pl. 24: t. 2395. 1895

Type. India: North Sikkim, Lachoong Valley in woods, alt. 11000 ft.; *J.D. Hooker s.n.*

Distribution. Sikkim [Bhutan, China].

Habit. Perennial.

***Cynosurus* L., Sp. Pl. 1: 72. 1753**

Lectotype. *Cynosurus cristatus* L. (Designated by Nash in N.L. Britton & A. Brown, Ill. Fl. N. U.S. ed. 2. 1: 251. 1913; affirmed by Hitchcock, Bull. U.S.D.A. 772: 67. 1920).

388. *Cynosurus cristatus* L., Sp. Pl. 1: 72. 1753

Type. “Habitat in Europa pratis.” Lectotype: *Herb. Linn. No. 91.1* (LINN). LT designated by Cope in Jarvis et al. (ed.), Regnum Veg. 127: 41. 1993

Distribution. Meghalaya [China].

Habit. Perennial.

389. *Cynosurus echinatus* L., Sp. Pl. 1: 72. 1753

Phalona echinata (L.) Dumort., Observ. Gramin. Belg. 114. 1824 (“1823”)

Type. “Habitat in Europa australiori.” Lectotype: *Herb. A. van Royen, sheet no. 913.62–79* (L). LT designated by Veldkamp in Cafferty et al. (ed.), *Taxon* 49: 249. 2000.

Distribution. India [also in Africa, Europe, North America, South America]. Possibly naturalized.

Habit. Annual.

Remarks. Specific states in India not recorded.

***Dactylis* L., Sp. Pl. 1: 71. 1753**

Lectotype. *Dactylis glomerata* L. (“glomeratus”). (Designated by Nash in N.L. Britton et A. Brown, Ill. Fl. N. U.S. ed 2. 1: 251. 1913; affirmed by Hitchcock, Bull. U.S.D.A. 772: 67. 1920).

390. *Dactylis glomerata* L., Sp. Pl. 1: 71. 1753 (as “glomeratus”)

Bromus glomeratus (L.) Scop., Fl. Carniol., ed. 2. 1: 76. 1771

Festuca glomerata (L.) All., Fl. Pedem. 2: 252. 1785

Trachypoa vulgaris Bubani, Fl. Pyren. (Bubani) 4: 359. 1901, nom. superfl. & illeg.

Type. “Habitat in Europae cultis rudieratis.” Lectotype: *Herb. Linn. No. 90.3* (LINN). LT designated by Clayton in Milne-Redhead and Polhill (ed.), Fl. Trop. E. Africa, Gramineae 1: 43. 1970.

Distribution. Arunachal Pradesh, Himachal Pradesh, Jammu and Kashmir, Meghalaya, Punjab, Tamil Nadu, Uttar Pradesh, Uttarakhand, West Bengal [Bhutan, China, Nepal].

Habit. Perennial.

***Deschampsia* P. Beauv., Ess. Agrostogr. 91. 1812**

Lectotype. *Deschampsia cespitosa* (L.) P. Beauv. (“caespitosa”) (*Aira cespitosa* L.). LT designated by Nash in N.L. Britton & A. Brown, Ill. Fl. N. U.S. ed. 2., 1: 215. 1913; affirmed by Hitchcock, Bull. U.S.D.A. 772: 116. 1920.

391. *Deschampsia cespitosa* (L.) P. Beauv., Ess. Agrostogr. 149, 160. 1812 (as “caespitosa”)

Aira cespitosa L., Sp. Pl. 1: 64–65. 1753. Type: “Habitat in Europae partis cultis & fertilibus.” Lectotype: *Herb. Linn. No. 85.8* (LINN). LT designated by Clayton in Milne-Redhead and Polhill (ed.), *Fl. Trop. E. Africa, Gramineae* 1: 92. 1970.
Agrostis cespitosa (L.) Salisb., *Prodr. Stirp. Chap. Allerton* 25. 1796

Distribution. Jammu and Kashmir, Sikkim, Uttarakhand [Bhutan, China, Pakistan].

Habit. Perennial.

392. *Deschampsia koelerioides* Regel, Bull. Soc. Imp. Naturalistes Moscou 41(2): 299. 1868

Type. “Eine ausgezeichnete neue Art, die in ihrer Tracht an eine Koeleria oder eine Hierochloe erinnert. Am Kok-djar im Thian-Shan bei 8000 Fuss Hohe vom H. v. Semenow auf Alpenwiesen gesammelt.” “cis- et Transsiliensibus”; 1857; *P.P. Semenov-Tjan-Schansky 1197* (LE).

Distribution. Jammu and Kashmir [Afghanistan, China, Pakistan].

Habit. Perennial.

***Festuca* L., Sp. Pl. 1: 73. 1753**

Lectotype. *Festuca ovina* L. LT designated by Nash in N.L. Britton and A. Brown, *Ill. Fl. N. U.S. ed. 2., 1: 269. 1913*; affirmed by Hitchcock, *Bull. U.S.D.A. 772: 28. 1920*.

393. *Festuca alaica* Drobow, Trudy Bot. Muz. Imp. Akad. Nauk 16: 134, t. 17/5. 1916

Type. Turkestan: Fergana Prov., Skobelev District; *Margelan s.n.* “In pratis alpinis ad fl. Dugova, circa pag. Jordan, alt. 14000 ft. (*Drobov 303*).”

Distribution. Jammu and Kashmir [Afghanistan, China, Pakistan].

Habit. Perennial.

Remarks. Record for India fide Naithani (1990).

394. *Festuca alata* (St.-Yves) Roshev., Fl. URSS. 2: 528. 1934

Festuca rubra L. ssp. *alata* St.-Yves, *Candollea* 3: 393. 1928. Type: Turkestan: Chaine de l'Alatau, Kokoirak, aux sources du Kabir; *Brotherus no. 784* (B). Kokbulak, aux sources du Naryn; *Brotherus s.n.* (B).

Festuca altaica auct. non Trin., 1829: Stapf, Fl. Brit. India (J.D. Hooker). 7(22): 351. 1896

Distribution. Jammu and Kashmir [China, Pakistan].

Habit. Perennial.

395. *Festuca altaica* Trin., Fl. Altaic. [Ledebour]. 1: 109. 1829

Type. USSR: Siberia “In summa alpe ad fontem fl. Acjulae rarissima”; *Bunge s.n.*

Distribution. India (Northwest Himalaya) [China, Pakistan].

Habit. Perennial.

Remarks. States within India not recorded.

396. *Festuca asthenica* Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 354. 1896

Type. India: Kashmir, alt. 7000–9000 ft.; *C.B. Clarke s.n.*, *Duthie s.n.*

Distribution. Jammu and Kashmir [Pakistan].

Habit. Perennial.

397. *Festuca bromoides* L., Sp. Pl. 1: 75. 1753

Vulpia bromoides (L.) Gray, Nat. Arr. Brit. Pl. 2: 124. 1821

Type. “Habitat in Anglia, Gallia.” Lectotype: Herb. A. van Royen No. 912.356–219 (L). LT designated by Stace & Jarvis in Bot. J. Linn. Soc. 91: 436. 1985.

Distribution. Tamil Nadu [Bhutan, Sri Lanka].

Habit. Annual.

398. *Festuca coelestis* (St.-Yves) Krecz. & Bobrov, Fl. URSS 2: 514. t. 50. f. 12. 1934

Festuca ovina L. ssp. *coelestis* St.-Yves, Candollea 3: 376. 1928. Type: Thian-schan Mount celestes, vallee de Djoukoutchiak, alt. 6300–7200 ft.; *Brocherel* 392 (Herb. Deless.) and many syntypes.

Distribution. Jammu and Kashmir [China, Pakistan].

Habit. Perennial.

Remarks. Record for India fide Naithani (1990).

399. *Festuca cumminsii* Stapf, Fl. Brit. India (J.D. Hooker). 7(22): 349. 1896

Syntypes. India: Sikkim, alt. 11000–12000 ft.; *J.D. Hooker s.n.* Bhutan; *Cummins s.n.*

Distribution. Jammu and Kashmir, Sikkim [Bhutan, Pakistan].

Habit. Perennial.

400. *Festuca danthonii* Asch. & Graebn., Syn. Mitteleur. Fl. 2: 551. 1901

Festuca ciliata Danthoine ex Lam. & DC. , 1805, Flore Française. Troisième Édition 3: 55. 1805, non. Gouan, 1762. Type. France: près Montepellier, et dans les îles sablonneuses de la Durance

Vulpia ciliata Dumort., Observ. Gramin. Belg. 100. 1824. Type: Yugoslavia: Dalmatiae arenosis, herbidis ad mare: copiosae in insula Vergada, Vaena.

Distribution. Himachal Pradesh, Jammu and Kashmir [Pakistan].

Habit. Annual.

Remarks. Records for India fide Naithani (1990).

401. *Festuca debilis* (Stapf) E.B. Alexeev, Byull. Moskovsk. Obshch. Isp. Prir. Otd. Biol. 83(4): 109. 1978

Festuca kashmiriana Stapf var. *debilis* Stapf, Fl. Brit. India (J.D. Hooker). 7(22): 351. 1896. Lectotype: India: Kashmir, Lidder Valley, above Kainmul, alt. 11000–12000 ft.; July 21, 1893; *J.F. Duthie 13139* (K). LT designated by E.B. Alexeev in Byull. Moskovsk. Obshch. Isp. Prir. Otd. Biol. 83(4): 109. 1978.

Distribution. Jammu and Kashmir [Pakistan].

Habit. Perennial.

402. *Festuca hartmannii* (Markgr.-Dann.) E.B. Alexeev, Byull. Moskovsk. Obshch. Isp. Prir. Otd. Biol. 83(4): 121. 1978

Festuca ovina L. var. *hartmannii* Markgr.-Dann., Bot. Jahrb. Syst. 85(3): 376. 1966. Type: Karakorum Central: Baintha, alt. 12800 ft.; July, 1962; *H. Hartmann s.n.*

Distribution. Jammu and Kashmir [Pakistan].

Habit. Perennial.

Remarks. Record for India fide Naithani (1990).

403. *Festuca kashmiriana* Stapf, Fl. Brit. India (J.D. Hooker). 7(22): 351. 1896

Festuca kashmiriana Stapf var. *ligulata* Stapf, Fl. Brit. India (J.D. Hooker). 7(22): 351.

1896. Type: India: Kashmir, alt. 11000–13000 ft.; *Duthie s.n.*

Festuca rubra L. ssp. *kashmiriana* (Stapf) St.-Yves, Candollea 3: 395. 1928

Type. Temperate and Alpine Himalaya, from Kashmir to Kumaon, alt. 8000–14000 ft.; *Royle s.n.*

Distribution. Jammu and Kashmir, Uttar Pradesh [China, Pakistan].

Habit. Perennial.

404. *Festuca leptopogon* Stapf, Fl. Brit. India (J.D. Hooker). 7(22): 354. 1896

Festuca subulata Trin. var. *leptopogon* (Stapf) St.-Yves, Candollea 3: 450–451. 1928

Type. India: Sikkim Himalaya, alt. 8000–11000 ft.; *J.D. Hooker s.n.* Khasia Hills, alt. 5000–6000 ft.; *J.D. Hooker & Thomson, C.B. Clarke s.n.*

Distribution. Assam, Meghalaya, Sikkim [Bhutan, China, Nepal].

Habit. Perennial.

405. *Festuca levingei* Stapf, Fl. Brit. India (J.D. Hooker). 7(22): 352. 1896

Type. India: Kashmir; *Levinge 27394* (K).

Distribution. Jammu and Kashmir [Pakistan].

Habit. Perennial.

406. *Festuca lucida* Stapf, Fl. Brit. India (J.D. Hooker). 7(22): 355. 1896

Type. India: NW Himalaya, Jaunsar, Karambar Peak, alt. 9000 ft.; May 1, 1894; *J.F. Duthie 14481* (LE).

Distribution. Himachal Pradesh, Jammu and Kashmir, Uttar Pradesh, Uttarakhand.

Habit. Perennial.

407. *Festuca maritima* L., Sp. Pl. 1: 75. 1753

Nardurus maritimus (L.) Murb., Acta Univ. Lund. 4: 25. 1900

Vulpia unilateralis (L.) Stace, Bot. J. Linn. Soc. 76: 350. 1978

Agropyron unilaterale (L.) P. Beauv., Ess. Agrostogr. 102. 1812, alternative name to *Brachypodium unilaterale*

Brachypodium unilaterale (L.) P. Beauv., Ess. Agrostogr. 155. 1812, alternative name to *Agropyron unilaterale*

Nardurus unilateralis (L.) Boiss., Voy. Bot. Espagne 2: 667. 1844

Triticum unilaterale L., Mant. Pl. 35. 1767. Type: "Habitat in maritimis Italiae, Galliae australis." Lectotype: Herb. Linn. No. 104.15 (LINN). LT designated by Stace & Jarvis in Bot. J. Linn. Soc. 91: 442. 1985

Festuca tenuifolia Schrad., Fl. Germ. (Schrader) 1: 345. 1806, non Sibth, 1794. Type: "In iftria herbidis."

Type. "Habitat in Hispania." Lectotype: Herb. Linn. No. 104.17 (LINN). LT designated by Hubbard in Proc. Linn. Soc. London 148: 110. 1936.

Distribution. India (Northwest Himalaya) [Asia: Saudi Arabia; Africa; Europe: Germany, Italy, Spain].

Habit. Annual.

Remarks. States in India not recorded.

408. *Festuca megalura* Nutt., Proc. Acad. Nat. Sci. Philadelphia 4: 24. 1848; J. Acad. Nat. Sci. Philadelphia ser. 2, 1: 188. 1848

Vulpia megalura (Nutt.) Rydb., Bull. Torrey Bot. Club 36: 538. 1909

Vulpia myuros var. *megalura* (Nutt.) Auquier, Bulletin du Jardin Botanique National de Belgique 47(1–2): 123. 1977

Festuca commutata Steud., Syn. Pl. Glumac. 1: 304. 1854. Type: "Chili, Hrbr Bertero nr. 274 et 1002 ex parte, mixta cum praecedente."

Type. USA: California, Hab. Santa Barbara, Upper California; *Wm. Gambel s.n.* (PH).

Distribution. Tamil Nadu. Naturalized; native to western North and South America.

Habit. Annual.

409. *Festuca modesta* Steud., Syn. Pl. Glumac. 1: 316. 1854

Schedonorus modestus Nees ex Steud., Syn. Pl. Glumac. 1: 316. 1854, nom. nud. pro. syn.

Type. Nepal; *Royle Herb.* 161.

Distribution. Jammu and Kashmir, Uttar Pradesh [China, Nepal].

Habit. Perennial.

Remarks. Taxonomic editor Soreng notes that this taxon belongs to the broad-leaved lineage of *Festuca* s.l., and possibly should be transferred to *Lolium*.

410. *Festuca muralis* Kunth, Syn. Pl. (Kunth) 1: 218. 1822*Vulpia muralis* (Kunth) Nees, *Linnaea* 19: 694. 1847*Vulpia muralis* (Kunth) Henrard, *Blumea* 2: 319. 1937

Type. “Crescit in muris, quibus horti circumsepti sunt, prope Conocoto Quitensium, alt. 1350 hex., Humboldt & Bonpland s.n.” Ecuador; *F.W.H. Humboldt & A.J.A. Bonpland s.n.*(P).

Distribution. India, presumably naturalized; native to South America.

Habit. Annual.

Remarks. States in India not recorded.

411. *Festuca myuros* L., Sp. Pl. 1: 74. 1753*Vulpia myuros* (L.) C.C. Gmel., *Fl. Bad.* 1: 8. 1805*Zerna myuros* Panz. ex Jacks., *Index Kew.* 2: 1249. 1895, pro syn.*Avena muralis* Salisb., *Prodr. Stirp. Chap. Allerton* 22. 1796, nom. superfl. & illeg.

Type. “Habitat in Anglia, Italia.” Lectotype: Herb. A. van Royen No. 912.356–218 (L). LT designated by Stace & Jarvis in *Bot. J. Linn. Soc.* 91: 436. 1985.

Distribution. Arunachal Pradesh, Assam, Himachal Pradesh, Jammu and Kashmir, Karnataka, Tamil Nadu, Uttar Pradesh [China, Pakistan].

Habit. Annual.

412. *Festuca nandadevica* Hajra, Indian J. Forest. 6(1): 79–80. f. 1. 1983

Type. India: Uttar Pradesh, Chamoli, Nandadevi National Park, Deodi-Ramani; *P.K. Hajra 73285A* (CAL).

Distribution. Uttar Pradesh, Uttarakhand.

Habit. Perennial.

Remarks. Record for Uttar Pradesh fide Naithani (1990).

413. *Festuca nitidula* Stapf, Fl. Brit. India (J.D. Hooker). 7(22): 350. 1896

Syntypes. Western Tibet, Nubra, alt. 12000–14000 ft.; *Thomson s.n.* India: North of Kumaon, alt. 15000 ft.; *R. Strachey & J.E. Winterbottom s.n.*

Distribution. Jammu and Kashmir, Uttar Pradesh, Uttarakhand [China, Nepal, Pakistan].

Habit. Perennial.

414. *Festuca octoflora* Walter, Fl. Carol. 81. 1788

Vulpia octoflora (Walter) Rydb., Bull. Torrey Bot. Club 36: 538. 1909

Festuca tenella Willd., Sp. Pl., ed. 4 [Willdenow] 1(1): 419. 1797. Type: "Habitat in America boreali."

Type. USA: South Carolina, Santee Valley; *Walter s.n.* (BM?). According to Hitchcock, this specimen is not at BM; see Lonard and Gould, Madroño 22: 221. 1974.

Distribution. Uttar Pradesh. Naturalized. Native to North America.

Habit. Annual.

Remarks. Record for India fide Naithani (1990).

415. *Festuca ovina* L., Sp. Pl. 1: 73–74. 1753

Type. "Habitat in Alpibus Lapponicae, Helvetiae, Scotiae." Lectotype: *Herb. Linn. No. 92.1*; *Lapland Herb. No. 55* (LINN). LT designated by Kerguélen in Lejeunia, n.s. 75: 150. 1975.

Distribution. Sikkim, Tamil Nadu, Uttar Pradesh [China, Nepal].

Habit. Perennial.

416. *Festuca pamirica* Tzvelev, Bot. Mater. Gerb. Bot. Inst. Komarova Akad. Nauk S.S.S.R. 20: 422. 1960

Festuca rubra L. ssp. *schlagintweitii* St.-Yves, Candollea 3: 389. 1928, p.p.

Type. Tadzhikistan, Pamir Boreali-occidentalis, in parties lapidosis in fontibus fluminis tacht-Korum prope trajectum Tachtakorum, alt. 13000 ft.; July 30, 1958; *N. Tzvelev. 1008* (LE).

Distribution. Jammu and Kashmir [China, Pakistan].

Habit. Perennial.

Remarks. Record for India fide Naithani (1990).

417. *Festuca parvigluma* Steud., Syn. Pl. Glumac. 1: 305. 1854

Type. "Ex Hrbo. Mus. Lugd. Batav. Japonia."

Distribution. Sikkim [China, Nepal].

Habit. Perennial.

Remarks. Records for Sikkim and Nepal fide Naithani (1990).

418. *Festuca polycolea* Stapf, Fl. Brit. India (J.D. Hooker). 7(22): 349. 1896 var. *polycolea*

Festuca ovina L. ssp. *polycolea* (Stapf) St.-Yves, Candollea 3: 373. 1928

Syntypes. Nepal; Wallich s.n. India: Sikkim, alt. 12000–16000 ft.; J.D. Hooker &c.

Distribution. Sikkim, Uttar Pradesh, Uttarakhand [Bhutan, Nepal].

Habit. Perennial.

419. *Festuca polycolea* Stapf var. *brevia* Stapf, Fl. Brit. India (J.D. Hooker). 7(22): 350. 1896

Type. India: Sikkim Himalaya, alt. 11000–13000 ft.

Distribution. Sikkim, Uttar Pradesh.

Habit. Perennial.

420. *Festuca rubra* L., Sp. Pl. 1: 74. 1753 var. *rubra*

Type. “Habitat in Europae sterilibus siccis.” Lectotype: *Linnaeus s.n.* (GB). LT designated by Jarvis et al. in *Watsonia* 16: 302. pl. 2B. 1987.

Distribution. Jammu and Kashmir, Himachal Pradesh, Meghalaya, Uttar Pradesh, Uttarakhand [China].

Habit. Perennial.

421. *Festuca rubra* L. ssp. *arctica* (Hack.) Govor., Fl. Ural. 127. 1937

Festuca rubra f. *arctica* Hack., Monogr. Festuc. Eur.: 138. 1882. Type not cited.

Festuca richardsonii Hook., Fl. Bor.-Amer. 2: 250, t. 230. 1840. Type: Arctic Sea-coast.

Dr. Richardson s.n., s.d.

Distribution. Jammu and Kashmir [China, Pakistan].

Habit. Perennial.

Remarks. Record for India fide Naithani (1990).

422. *Festuca rubra* L. ssp. *clarkei* (Stapf) St.-Yves, Candollea 3: 398. 1928

Festuca rubra L. var. *clarkei* Stapf, Fl. Brit. India (J.D. Hooker). 7(22): 353. 1896.

Syntypes: India: Kangara & Dalhousie, alt. 7000–8000 ft.; C.B. Clarke s.n. Khasia Hills, alt. 4000–6000 ft.; C.B. Clarke s.n.

Festuca rubra L. var. *stapfiana* St.-Yves, Candollea 3: 398. 1928

Distribution. Assam, Himachal Pradesh, Jammu and Kashmir, Meghalaya [Bhutan, China, Pakistan].

Habit. Perennial.

Remarks. Record for Meghalaya fide Naithani (1990).

423. *Festuca rubra* L. var. *villosa* Mert. & W.D.J. Koch, Deutschl. Fl. (Roehling), ed. 3. 1: 654. 1823

Type. [Europe], Not Spenner, 1825.

Distribution. Himachal Pradesh. Also in Europe.

Habit. Perennial.

Remarks. Record for India fide Naithani (1990).

424. *Festuca sanjappa* Chandra Sek. & S.K. Srivast., J. Jap. Bot. 80(2): 72–75. f. 1. 2005

Type. India: Himachal Pradesh, Pin Valley National Park, Chhohem, 12800–13100 ft.; *K. Chandra Sekar 103271* (CAL).

Distribution. Himachal Pradesh.

Habit. Perennial.

425. *Festuca simlensis* (Stapf) E.B. Alexeev, Byull. Moskovsk. Obshch. Isp. Prir. Otd. Biol. 83(4): 110. 1978

Festuca kashmiriana Stapf var. *simlensis* Stapf, Fl. Brit. India (J.D. Hooker). 7(22): 351. 1896. Lectotype: India: Simla, alt. 7000–8000 ft.; *J.D. Hooker & Thomson s.n.* (K). LT designated by E.B. Alexeev in Byull. Moskovsk. Obshch. Isp. Prir. Otd. Biol. 83(4): 110. 1978.

Distribution. Himachal Pradesh [Pakistan].

Habit. Perennial.

426. *Festuca stapfii* E.B. Alexeev, Byull. Moskovsk. Obshch. Isp. Prir. Otd. Biol. 83(4): 115 1978

Festuca undata Stapf var. *aristata* Stapf, Fl. Brit. India (J.D. Hooker). 7(22): 351. 1896. Type: India: Sikkim, alt. 11,000 ft.; *J.D. Hooker & T. Thomson s.n.*

Distribution. Sikkim, Tamil Nadu, West Bengal [Bhutan, China, Nepal].

Habit. Perennial.

427. *Festuca tibetica* (Stapf) E.B. Alexeev, Byull. Moskovsk. Obshch. Isp. Prir. Otd. Biol. 83(4): 118. 1978

Festuca valesiaca Schlecht. ex Gaudin var. *tibetica* Stapf, Fl. Brit. India (J.D. Hooker). 7(22): 349. 1896. Lectotype: Tibet Orientalis, region alpine, alt. 14000 ft.; *J.D. Hooker & T. Thomson s.n.* (K). LT designated by E.B. Alexeev in Byull. Moskovsk. Obshch. Isp. Prir. Otd. Biol. 83(4): 118. 1978

Distribution. Sikkim [Bhutan, China, Nepal, Pakistan].

Habit. Perennial.

428. *Festuca undata* Stapf, Fl. Brit. India (J.D. Hooker). 7(22): 350. 1896

Syntypes. India: Sikkim, alt. 12000 ft.; *J.D. Hooker s.n.*, Herb. Ind. Or.; *J.D. Hooker & Thomson Bromus no. 16.*

Distribution. Sikkim, Tamil Nadu [China, Nepal].

Habit. Perennial.

429. *Festuca valesiaca* Schlecht. ex Gaudin, Agrost. Helv. 1: 242. 1811 var. *valesiaca*

Festuca ovina L. var. *valesiaca* (Schlecht. ex Gaudin) W.D.J. Koch, Syn. Fl. Germ. Helv. 812. 1837, *isonym*, non *Festuca ovina* L. var. *valesiaca* (Schleich. ex Gaudin) Link, Hort. Berol. [Link] 2: 267. 1833.

Type. “Habitat in locis arenosis Valesiae. Circa Branson copiose Perennis.”

Distribution. Assam, Himachal Pradesh, Jammu and Kashmir, Sikkim, Uttar Pradesh, Uttarakhand [China].

Habit. Perennial.

430. *Festuca wallichiana* E.B. Alexeev, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 83(4): 120. 1978

Distribution. Arunachal Pradesh [Bhutan, China, Nepal].

Habit. Perennial.

***Helictochloa* Romero Zarco, Candollea 66(1): 96. 2011**

Type. *Helictochloa bromoides* (Gouan) Romero Zarco (*Avena bromoides* Gouan).

431. *Helictochloa pratensis* (L.) Romero Zarco, Candollea 66(1): 103. 2011

Avena pratensis L., Sp. Pl. 1: 80. 1753. Type: "Habitat in Europae pascuis siccis apricis."
Lectotype: *Herb. Linn. No. 44.5* (S). LT designated by Röser in Taxon 44: 397. 1995.

Avena alpina Sm., Trans. Linn. Soc. London 10: 335. 1811, non Honck., 1782? Type:
"Discovered in 1807, on rocks upon the summits of the highest Mountains of Clova, Angusshire."

Heuffelia pratensis (L.) Schur, Enum. Pl. Transsilv. 762. 1866

Helictotrichon pratense (L.) Pilg., Repert. Spec. Nov. Regni Veg. 45: 6. 1938

Distribution. Uttarakhand [Pakistan].

Habit. Perennial.

Remarks. Dr. Romero Zarco (pers. comm.) speculates that this species could have been introduced into India as a pasture grass.

***Holcus* L., Sp. Pl. 2: 1047. 1753, nom. cons.**

Type. *Holcus lanatus* L. (typ. cons.).

432. *Holcus lanatus* L., Sp. Pl. 2: 1048. 1753

Avena lanata (L.) Koeler, Descr. Gram. (Koeler) 303. 1802

Notholcus lanatus (L.) Nash ex Hitchc. in Jepson, Fl. Calif. 1: 126. 1912

Ginannia lanata (L.) F.T. Hubb., Rhodora 18: 234. 1916, nom. superfl. & illeg. for *H. lanatus* L.

Ginannia pubescens Bubani, Fl. Pyren. (Bubani) 4: 321. 1901, nom. superfl. & illeg. for *H. lanatus* L.

Aira holcus-lanatus Vill., Hist. Pl. Dauphiné (Villars) 2: 87. 1787, nom. superfl. & illeg. for *H. lanatus* L.

Avena pallida Salisb., Prodr. Stirp. Chap. Allerton 24. 1796, nom. superfl. & illeg. for *H. lanatus* L.

Type. "Habitat in Europae pascuis arenosis." Lectotype: *Herb. Linn. No. 1212.10* (LINN). LT designated by Cope in Jarvis et al. (ed.), Regnum Veg. 127: 54. 1993.

Distribution. Sikkim, West Bengal [China].

Habit. Perennial.

433. *Holcus mollis* L., Syst. Nat., ed. 10. 2: 1305. 1759

Aira mollis (L.) Schreb., Spic. Fl. Lips. 51. 1771

Avena mollis (L.) Koeler, Descr. Gram. (Koeler) 300. 1802

Avena sylvatica Salisb., Prodr. Stirp. Chap. Allerton 24. 1796, nom. superfl. & illegit.

Ginannia mollis (L.) Bubani, Fl. Pyren. (Bubani) 4: 322. 1901

Notholcus mollis (L.) Hitchc., Amer. J. Bot. 2(6): 304. 1915

Type. “Habitat [in Europa: in Hallandia. [sic] Osbeck.] Sp. Pl., ed. 2. 2: 1485. 1763.”
Lectotype: Herb. Linn. No. 1212.9 (LINN). LT designated by Cope in Cafferty et al. (ed.), Taxon 49: 251. 2000.

Distribution. Meghalaya [also in Europe, North America]. Naturalized. Native to Europe.

Habit. Perennial.

***Hyalopoa* (Tzvelev) Tzvelev, Bot. Zhurn. (Moscow & Leningrad) 50(9): 1320. 1965**

Colpodium subg. *Hyalopoa* Tzvelev, Nov. Syst. Pl. Vasc. 1964: 6. 1964.

Type. *H. pontica* (Balansa) Tzvelev (*Catabrosa pontica* Balansa).

434. *Hyalopoa nutans* (Stapf) E.B. Alexeev ex Cope, Fl. Pakistan 143: 423. 1982

Catabrosa nutans Stapf, Fl. Brit. India (J.D. Hooker). 7(22): 312. 1896. Type: Alpine Himalaya: from Kashmir to Garhwal, alt. 10000–14000 ft.; *Jacquemont s.n.*

Colpodium nutans (Stapf) Bor, Fl. Iranica 70: 54. 1970

Distribution. Jammu and Kashmir [Pakistan].

Habit. Perennial.

***Koeleria* Pers., Syn. Pl. (Persoon) 1: 97. 1805**

Lectotype. *Aira cristata* L. Designated by Hitchcock, Bull. U.S.D.A. 772: 107. 1920.

Notes. The generic limits of *Koeleria*, *Trisetum* and related genera have been the subject of much recent taxonomic work. See comments under *Trisetum*.

435. *Koeleria argentea* Griseb., Nachr. Königl. Ges. Wiss. Georg-Augusts-Univ. 77. 1868 var. *argentea*

Koeleria litvinowii ssp. *argentea* (Griseb.) S.M. Phillips & Z.L. Wu, Fl. China 22: 331 2006

Type. India: “T. Nubra, Ladak pr. Leh, Nari Khorsum.”

Distribution. Himachal Pradesh.

Habit. Perennial.

436. *Koeleria argentea* Griseb. var. *nepalensis* Domin, Biblioth. Bot. 14(Heft. 65): 115. t. 7. f. 6. 1907

Type. “Herb. Schlaginweit from India and High Asia 1. Gen, Nro. Of Catal 4118 K. *nepalensis* Griseb. (Teste Grisebach) (1856).”

Distribution. Himachal Pradesh [Nepal].

Habit. Perennial.

Remarks. Record for India fide Naithani (1990).

437. *Koeleria hookeri* Barberá, Quintanar, Soreng, & P.M. Peterson, Phytoneuron 2019–46: 4. 2019. Name changed to avoid confusion with *Koeleria clarkeana* Domin.

Avena clarkei Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 278. 1896. Type: India: Kashmir, at Laka and Badrawur, alt. 10000–11000 ft. Chamba, Dalhousie, alt. 8700 ft.; *C.B. Clarke s.n.*

Trisetum clarkei (Hook. f.) R.R. Stewart, Brittonia 5(4): 431. 1945

Distribution. Jammu and Kashmir, Himachal Pradesh, Uttar Pradesh, Uttarakhand [Afghanistan, China, Nepal, Pakistan].

Habit. Perennial.

438. *Koeleria litvinowii* Domin, Biblioth. Bot. 14(65): 116. 1907

Distribution. Jammu and Kashmir [Afghanistan, China].

Habit. Perennial.

439. *Koeleria micans* (Hook. f.) Barberá, Quintanar, Soreng, & P.M. Peterson, *Phytoneuron* 2019–46: 5. 2019

Avena micans Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 279. 1896. Type: Western Himalaya: Garhwal, banks of the Ganges, alt. 8000–10000 ft.; *Duthie s.n.*

Trisetum micans (Hook. f.) Bor, Grasses Burma, Ceylon, India and Pakistan 448. 1960. Type: Teri Garhwal, alt. 8600–9600 ft.; *J.F. Duthie* 46

Distribution. Uttar Pradesh, Uttarakhand.

Habit. Perennial.

440. *Koeleria pyramidata* (Lam.) P. Beauv., *Ess. Agrostogr.* 84, 166, 175. 1812

Poa pyramidata Lam., Tabl. Encycl 1: 183. 1791

Koeleria cristata Pers., Syn. Pl. (Persoon) 1: 97. 1805, nom. illeg. superfl.; [Persoon included Lamarck's older name as a variety (*K. cristata* var. *pyramidata* (Lam.) Pers.) within his new *Koeleria cristata* Pers. (non. L.; often erroneously cited as *K. cristata* (L.) Pers.)]

Aira cristata L., Sp. Pl. 1: 63. 1753, p.p. Type: “Habitat in Angliae, Galliae, Helvetiae siccioribus.” Lectotype: Herb. A. van Royen, sheet no. 913.62–99 (L). LT designated by Humphries in Cafferty et al. (ed.), *Taxon* 49: 244. 2000. Epitype: France. Jura, Bas-Bugey, Montagny de Ste Claire sur Brioguer, 400–500 m; 3 Jun 1929; *Briquet* 6737 (BM). Epitype designated by Humphries, C.J. in Cafferty et al. (ed.), *Taxon* 49: 244. 2000.

Airochloa cristata (L.) Link, Hort. Berol. [Link] 1: 127. 1827

Dactylis cristata (L.) M. Bieb., Fl. Taur.-Caucas. 1: 67. 1808

Festuca cristata (L.) Vill., Hist. Pl. Dauphiné (Villars) 2: 93. 1787, non L. (1753)

Poa nitida Lam., Tabl. Encycl. 1: 182. 1791. Type: France: “Ex Galliae siccis & montosis Leer S.T. 5. f. 6.”

Aira gracilis Trin., Fund. Agrost. (Trinius) 144. 1820

Airochloa gracilis Link, Hort. Berol. [Link] 2: 276. 1833

Koeleria gracilis Pers., Syn. Pl. (Persoon) 1: 97. 1805, nom. superfl. & illeg.

Koeleria cristata Pers., Syn. Pl. (Persoon) 1: 97. 1805, nom. superfl. & illeg.

Koeleria macrantha (Ledeb.) Schult., Mant. 2 (Schultes) 345. 1824

Aira macrantha Ledeb., Mém. Acad. Imp. Sci. Saint Pétersbourg, Sér. 7, 5: 515–516. 1812. Type: “Hab. in jugo montium jablonnoi-Chrebet.”

Koeleria cristata auct. non (L.) Pers., 1805: Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 308. 1896

Distribution. Himachal Pradesh, Jammu and Kashmir, Rajasthan, Uttar Pradesh, Uttarakhand [China, Nepal, Pakistan].

Habit. Perennial.

Remarks. Taxonomic editor Soreng notes that according to the Linnaean typification website, the current name for *Aira cristata* L. is *Koeleria macrantha* (Ledeb.) Schult., Mant. 2 (Schultes) 2: 345. 1824. *Koeleria cristata* might not be made on the basis of *Aira cristata*. *Koeleria cristata* is treated as a synonym of *Koeleria macrantha* in the Flora of Pakistan, and according to Quintanar *Koeleria macrantha* is a taxonomic synonym of *K. pyramidata*. There is no morphological discontinuity among these taxa. Thus, our distribution information and synonymy reflect the merging of these taxa, with the understanding that (as above), *Koeleria cristata* might not really belong here. See also comments in IPNI (2020).

441. *Koeleria spicata* (L.) Barberá & al. subsp. *virescens* (Regel) Barberá, A. Quintanar, Soreng & P.M. Peterson, Phytoneuron 2019–46: 9. 2019

Avena flavescens L. var. *virescens* Regel, Bull. Soc. Imp. Naturalistes Moscou 41(2): 299. 1868

Trisetum spicatum (L.) Richt. ssp. *virescens* (Regel) Tzvelev, Novosti Sistematiki Vysshchikh Rastenii 7: 65. 1971. 1970

Aira spicata L., Sp. Pl. 1: 64. 1753 [applies to ssp. *spicatum*] Type: “Habitat in Lapponiae alpinus.” Lectotype = “Gramen Avenaceum paniculatum Alp. humile, locustis in spicam collectis varicoloribus aristatis” in Scheuchzer, Agrostographia Helv. Prodr., 24, t. 6, 1708. LT designated by Louis-Marie in Rhodora 30: 238. 1928.

Avena virescens (Regel) Regel, Trudy Imp. S.-Peterburgsk. Bot. Sada 7: 635. 1880

Avena flavescens L. var. *virescens* Regel, Bull. Soc. Imp. Naturalistes Moscou 41(2): 299. 1868. Type: “Tschilik und Djenischke. Wasserscheide im Altai transiliensis, auf Alpenwiesen bei 8000 fuss Hohe (Semenow).”

Trisetum pubiflorum Hack., Oesterr. Bot. Z. 52: 187. 1902. Type: India: Kashmir, Sangam Valley, in rupibus, circ. 13500 ft.; *Duthie 13543*

Trisetum subspicatum (L.) P. Beauv., Ess. Agrostogr. 88, 180. 1812, Basionym is nom. superfl.

Trisetum virescens (Regel) B. Fedtsch., Izv. Imp. Bot. Sada Petra Velikago 14 (Suppl. 2): 64. 1915, non Nees ex Steud., 1854

Aira subspicata L., Syst. Nat., ed. 10. 2: 873. 1759, nom. superfl. & illeg.

Avena airoides Koeler, Descr. Gram. (Koeler) 298. 1802 non *Avena spicata* L., 1753

Trisetum spicatum (L.) Richt. ssp. *himalaicum* Hulten, Svensk. Bot. Tidskr. 53: 213. 1959, nom. inval., type not indicated (many specimens cited, none indicated as type)

Trisetum spicatum (L.) Richt. ssp. *himalaicum* Hulten ex Veldkamp, The Gardens' Bulletin Singapore 36(1): 135. 1983. Holotype, as lectotype: Nepal: Chilime Kharka, 4570 m, July 1949, *Polunin 1175* (S; IT: BM).

Koeleria spicata subsp. *himalaica* (Hultén ex Veldkamp) Barberá, A. Quintanar, Soreng & P.M. Peterson, Phytoneuron 2019–46: 8. 2019

Distribution. Arunachal Pradesh, Himachal Pradesh, Jammu and Kashmir, Uttar Pradesh, Uttarakhand [Afghanistan, Bhutan, China, Nepal, Pakistan].

Habit. Perennial.

Remarks. Records for Arunachal Pradesh, Himachal Pradesh, Jammu and Kashmir, and Uttar Pradesh fide Naithani (1990). Because *Trisetum spicatum* ssp. *himalaicum*, ssp. *spicatum* and ssp. *virescens* may be lumped together in the literature, it is not clear if all subspecies are in India and, if so, what their ranges are.

***Lagurus* L., Sp. Pl. 1: 81. 1753**

Type. *Lagurus ovatus* L.

442. *Lagurus ovatus* L., Sp. Pl. 1: 81. 1753

Type. “Habitat in Italia, Gallia, Sicilia, Lusitania.” Lectotype: *Herb. Linn. No. 96.1* (LINN). LT designated by Meikle in *Fl. Cyprus* 2: 1788. 1985.

Distribution. Jammu and Kashmir [China, Pakistan].

Habit. Annual.

Remarks. Record for India fide Naithani (1990).

***Lamarckia* Moench, *Methodus* (Moench) 201. 1794 (“Lamarkia”), nom. et orth. cons.**

Type. *Lamarckia aurea* (L.) Moench (*Cynosurus aureus* L.).

443. *Lamarckia aurea* (L.) Moench, *Methodus* (Moench) 201. 1794

Cynosurus aureus L., Sp. Pl. 1: 73. 1753. Type: “Habitat in Europa australi.” Lectotype: *Herb. Linn. No. 91.19* (LINN). LT designated by Scholz in Cafferty et al. (ed.), *Taxon* 49: 249. 2000.

Achyrodes aureum (L.) Kuntze, *Revis. Gen. Pl.* 2: 758. 1891

Chrysurus aureus (L.) P. Beauv. ex Spreng., *Syst. Veg.* (ed. 16) [Sprengel] 1: 296. 1824 (“1825”), non (L.) Besser, 1810 c. f. *Taxon* 31(1): 70. 1982, Isonym

Chrysurus cynosuroides Pers., *Syn. Pl.* (Persoon) 1: 80. 1805, nom. superfl. & illeg. for *C. aureus*

Distribution. Himachal Pradesh, Jammu and Kashmir, Uttar Pradesh [China, Pakistan].

Habit. Annual.

***Leucopoa* Griseb. in Ledebour, Fl. Ross. 4(13): 383 1852**

Type. *Leucopoa sibirica* Griseb. (*Leucopoa albida* (Turcz. ex Trin.) Krecz. & Bobrov).

444. *Leucopoa albida* (Turcz. ex Trin.) Krecz. & Bobrov, Fl. URSS 2: 495. 1934

Poa albida Turcz. ex Trin., Mém. Acad. Imp. Sci. St.-Pétersbourg, Sér. 6, Sci. Math. 1: 387. 1830, non *Festuca albida* Lowe, 1831. Lectotype: [Siberia]: Lk. Baikal, mineral springs Turkinskije; 1829; *Turczaninow s.n.* (LE). LT orig. label: "In arenosis ad Baicalem prope thermes Turkenses." (vide TROPICOS)

Leucopoa sibirica Griseb. in Ledebour, Fl. Ross. 4(13): 383. 1852, nom. superfl. for *Poa albida* Turcz. ex Trin.

Festuca sibirica Hack. ex Boiss., Fl. Orient. (Boissier) 5: 626. 1884, nom. nov. for *Poa albida* Turcz. ex Trin.

Distribution. Reported from Jammu and Kashmir, but probably not in India [Afghanistan, China, Pakistan]. See comments under *Leucopoa olgae*.

Habit. Perennial.

445. *Leucopoa karatavica* (Bunge) Krecz. & Bobrov, Fl. URSS 2: 496. t. 39. f. 2 (a-f). 1934

Poa karatavica Bunge, Mém. Acad. Imp. Sci. St.-Pétersbourg Divers Savans 7: 525. 1851. Type: "Hab. Auf den Alpen des Karatau 12 Septbr. 1841 (specima duo deflorata sine fructu)"; *Alexandrio Lehmann s.n.*

Festuca karatavica (Bunge) B. Fedtsch., Rastitel'n. Turkestana 136. 1915

Xanthochloa karatavica (Bunge) Tzvelev, Bot. Zhurn. (Moscow and Leningrad) 91(2): 275. 2006.

Distribution. India (Northwest Himalaya) [also in Russia].

Habit. Not recorded.

Remarks. Distribution in India not recorded.

446. *Leucopoa olgae* (Regel) Krecz. & Bobrov, Flora URSS 2: 495. 1934

Molinia olgae Regel, Trudy Imp. S.-Peterburgsk. Bot. Sada 7(2): 625. 1881. Type: "In Kokaniae montibus Alai"; *O. Fedtschenko s.n.*

Festuca olgae (Regel) Krivot., Bot. Mater. Gerb. Bot. Inst. Komarova Akad. Nauk S.S.S.R. 20: 56. 1960

Distribution. Jammu and Kashmir [Afghanistan, China, Pakistan].

Habit. Perennial.

Remarks. Although *Leucopoa albida* (Turcz. ex Trin.) Krecz. & Bobrov has been reported from India this is most likely an error, confusing *L. albida* with *L. olgae*. See Dickoré (1995).

***Lolium* L., Sp. Pl. 1: 83. 1753**

Lectotype. *Lolium perenne* L. LT designated by Nash in N.L. Britton & A. Brown, Ill. Fl. N. U.S. ed. 2. 1: 281. 1913; affirmed by Hitchcock, Bull. U.S.D.A. 772: 103. 1920.

447. *Lolium arundinaceum* (Schreb.) Darbysh., Novon 3(3): 241. 1993

Festuca arundinacea Schreb., Spic. Fl. Lips. 57. 1771. Type: “In prato acclivi hinter dem Biniz, loco humido” Lectotype: Scheuzer, Agrostographia, t. 5. f. 18. 1719.

LT designated by Reveal, Terrell, Wiersema & Scholz in Taxon 40: 136. 1991.

Bromus arundinaceus (Schreb.) Roth, Tent. Fl. Germ. 2(1): 141. 1789

Distribution. Himachal Pradesh [native to Europe].

Habit. Perennial.

Remarks. Distribution in India fide Naithani (1990). It is unclear where this is naturalized there or not.

448. *Lolium giganteum* (L.) Darbysh., Novon 3(3): 241. 1993

Bromus giganteus L., Sp. Pl. 1: 77–78. 1753. Type: “Habitat in Europae sylvis siccis.”

Lectotype: *Herb. A. van Royen, sheet no. 913.62–78* (L). LT designated by Darbyshire in Cafferty et al. (ed.), Taxon 49: 248. 2000.

Festuca gigantea (L.) Vill., Hist. Pl. Dauphiné (Villars) 2: 110. 1787

Zerna gigantea (L.) Panz. ex B.D. Jacks., Index Kew. 1(4): 1249. 1895

Trisetum flaccidum (Hack. ex Hook. f.) R.R. Stewart, Brittonia 5(4): 431. 1945

Avena flaccida Hack. ex Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 280. 1896.

Type: India: Punjab, Black Mountains, alt. 8000–9000 ft.; *J.F. Duthie* 7609.

Distribution. Assam, Himachal Pradesh, Jammu and Kashmir, Meghalaya, Punjab, Uttar Pradesh, Uttarakhand [Bhutan, China, Nepal, Pakistan].

Habit. Perennial.

Remarks. Bor (1960, p. 448) notes that *Trisetum flaccidum* is a species of *Festuca*, possibly *F. gigantea*. This species is now *Lolium giganteum*.

449. *Lolium perenne* L., Sp. Pl. 1: 83. 1753

Lolium brasilianum Nees, Fl. Bras. Enum. Pl. 2(1): 443. 1829. Type: Uruguay: Montevideo; *Sellow s.n.* (B).

Type. "Habitat in Europa ad agrorum versuras solo fertili." Lectotype: *Herb. Linn. No. 99.1* (LINN). LT designated by Terrell in *Taxon. Revis. Genus Lolium* 7. 1968.

Distribution. Bihar, Himachal Pradesh, Jammu and Kashmir, Meghalaya, Sikkim, Tamil Nadu, Uttar Pradesh [China, Pakistan].

Habit. Perennial.

450. *Lolium persicum* Boiss. & Hohen., Diagn. Pl. Orient. ser. 1, 2(13): 66. 1854

Lolium rigidum Gaudin var. *duthiei* Hack. ex Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 364. 1896. Type: India: Kashmir, Sirinagar, alt. 5000–6000 ft.; *Duthie no. 10846*

Type. Iran: "Hab. in uliginosis montis Elbrus prope Derbend; June 9, 1943; *Kotschy 278.*" (G).

Distribution. Jammu and Kashmir [Afghanistan, Pakistan].

Habit. Annual.

Remarks. Distribution in India fide Naithani (1990).

451. *Lolium remotum* Schrank, Baier. Fl. 1: 382. 1789 var. *remotum*

Type. Germany: Bavaria, "um Burghausen", type not known according to Terrell (1968).

Distribution. Northwest India [Afghanistan, China].

Habit. Annual.

Remarks. States in India not recorded.

452. *Lolium remotum* Schrank var. *aristatum* (Doell) Asch., Fl. Brandenburg 1(2): 876. 1864

Lolium linicolum A. Braun var. *aristatum* Doell, Fl. Baden [Doell] 1: 113. 1857. Type: *Herbarium Doell*

Distribution. Himachal Pradesh, Uttar Pradesh [China].

Habit. Annual.

Remarks. Distribution in India fide Naithani (1990).

453. *Lolium rigidum* Gaudin, *Agrost. Helv.* 1: 334–335. 1811

Lolium loliaceum (Bory & Chaub.) Hand.-Mazz., Ann. K. K. Naturhist. Hofmus. 28(1–2): 32. 1914

Rottboellia loliacea Bory & Chaub., Exp. Sci. Moree Bot. 3: 46. t. 3. f. 2. 1832

Type. “Augustae Praetoriae ad vias apricas anno 1809 inveni.” *Gaudin s.n.* (LAU).

Distribution. Jammu and Kashmir [Afghanistan, Pakistan].

Habit. Annual.

454. *Lolium temulentum* L., *Sp. Pl.* 1: 83. 1753 var. *temulentum*

Type. “Habitat in Europae agris inter Hordeum, Linum.” Lectotype: *Herb. Burser I: 113* (UPS). LT designated by Loos & Jarvis in Bot. J. Linn. Soc. 108: 408. 1992.

Distribution. Assam, Bihar, Delhi, Himachal Pradesh, Jammu and Kashmir, Kerala, Madhya Pradesh, Maharashtra, Meghalaya, Odisha, Punjab, Rajasthan, Tamil Nadu, Uttar Pradesh, Uttarakhand [China, Pakistan].

Habit. Annual.

455. *Lolium temulentum* L. var. *arvense* (With.) Lilj., *Utkast Sv. Fl.*, ed. 3 80. 1816

Lolium arvense With., Arr. Brit. Pl., ed. 3. 2: 168. 1796. Type: United Kingdom and cited many syntypes.

Distribution. Assam, Delhi, Himachal Pradesh, Jammu and Kashmir, Kerala, Madhya Pradesh, Maharashtra, Meghalaya, Punjab, Rajasthan, Tamil Nadu, Uttar Pradesh, Uttarakhand [also in Europe].

Habit. Annual.

Remarks. Record for Himachal Pradesh fide Naithani (1990).

***Milium* L., *Sp. Pl.* 1: 61. 1753**

Lectotype. *Milium effusum* L. LT designated by Nash in N.L. Britton & A. Brown, Ill. Fl. N. U.S. ed. 2. 1: 173. 1913; affirmed by Hitchcock, Bull. U.S.D.A. 772: 156. 1920.

456. *Milium effusum* L., *Sp. Pl.* 1: 61. 1753

Melica effusa (L.) Salisb., Prodr. Stirp. Chap. Allerton 20. 1796

Miliarium effusum (L.) Moench, Methodus (Moench) 204. 1794

Paspalum effusum (L.) Raspail, Ann. Sci. Nat. (Paris) 5: 301. 1825

Type. "Habitat in Europae nemoribus umbrosis." Lectotype: *Herb. Linn. No. 83.3* (LINN). LT designated by Cope in Jarvis et al. (ed.), *Regnum Veg.* 127: 66. 1993.

Distribution. Himachal Pradesh, Jammu and Kashmir, Uttar Pradesh [Afghanistan, Bhutan, China, Pakistan].

Habit. Perennial.

***Paracolpodium* (Tzvelev) Tzvelev, Bot. Zhurn. (Moscow & Leningrad) 50: 1320. 1965**

Colpodium subg. *Paracolpodium* Tzvelev, Nov. Syst. Pl. Vasc. 1964: 9. 1964.

Type. *Paracolpodium altaicum* (Trin.) Tzvelev (*Colpodium altaicum* Trin.).

457. *Paracolpodium altaicum* (Trin.) Tzvelev ssp. *leucolepis* (Nevski) Tzvelev, Novosti Sist. Vyssh. Rast. 3: 33. 1966

Colpodium leucolepis Nevski, Byull. Moskovsk. Obshch. Isp. Prirodoz. Biol. 43: 224. 1934. Type: Tajikistan: Pamir, Fontes fl. Aksu (Murgab), in declivitate NW faucium Beik, in herbosis; July 18, 1901; *Th. Alexeenko 2120* (LE).

Distribution. Jammu and Kashmir [also in Tajikistan].

Habit. Perennial.

Remarks. Distribution in India fide Naithani (1990).

458. *Paracolpodium wallichii* (Hook. f. ex Stapf) E.B. Alexeev, Novosti Sist. Vyssh. Rast. 18: 94. 1981

Colpodium wallichii (Hook. f. ex Stapf) Bor, Kew Bull. 1953: 270. 1953

Catabrosa wallichii Hook. f. ex Stapf, Fl. Brit. India (J.D. Hooker). 7(22): 312. 1896.

Syntypes: Nepal; 1821; Numer. List [Wallich] no. 8907. India: Sikkim, Kankola Pass, alt. 14000–15000 ft.; *J.D. Hooker s.n.*

Distribution. Sikkim [Bhutan, China, Nepal].

Habit. Perennial.

***Parapholis* C.E. Hubb., Blumea Suppl. 3: 14. 1946**

Lectotype. *Parapholis incurva* (L.) C.E. Hubb. (*Aegilops incurva* L.) Probably designated by A. Chase, Misc. Publ. U.S.D.A. 200: 997. 1950.

459. *Parapholis incurva* (L.) C.E. Hubb., *Blumea*, Suppl. 3: 14. 1946

Aegilops incurva L., Sp. Pl. 2: 1051. 1753. Type: “Habitat in Oriente. Tournefort.”
Neotype: *Herb. Linn. No. 1218.11* (LINN). LT designated by Cuccuini in Cafferty et al. (ed.), *Taxon* 49: 242. 2000.

Lepturus incurvus (L.) Trin., Fund. Agrost. (Trinius) 123. t. 8. 1820 (as “incurvatus”)

Pholiurus incurvus (L.) Hitch., Bull. U.S.D.A. 772: 106. 1920 (as “incurvatus”)

Distribution. Northwest India [China].

Habit. Annual.

Remarks. States in India not recorded.

***Phalaris* L., Sp. Pl. 54. 1753**

Lectotype. *Phalaris canariensis* L. LT designated by Hitchcock, *Amer. J. Bot.* 5: 252. 1918.

460. *Phalaris aquatica* L., Cent. Pl. I. 4. 1755

Phalaris tuberosa L., Mant. Pl. Altera 557. 1771. Type: “Habitat in Europae australi.”
Lectotype: *Herb. Linn. No. 78.3* (LINN). LT designated by Anderson in *Iowa State J. Sci.* 36: 43. 1961.

Type. “Habitat in Aegypto & ad Tyberia.” Lectotype: Hasselquist, *Herb. Linn. No. 78.4* (LINN). LT designated by Anderson in *Iowa State J. Sci.* 36: 43. 1961.

Distribution. Tamil Nadu [China].

Habit. Perennial.

461. *Phalaris arundinacea* L., Sp. Pl. 1: 55. 1753

Digraphis arundinacea (L.) Trin., Fund. Agrost. (Trinius) 127. 1820

Phalaroides arundinacea (L.) Rauschert, Feddes Repert. 79: 409. 1969

Typhoides arundinacea (L.) Moench, Methodus (Moench) 202. 1794

Arundo colorata Aiton, Hortus. Kew. (W. Aiton) 1: 116. 1789. Type: Britain

Calamagrostis variegata With., Arr. Brit. Pl., ed. 3. 2: 124. 1796

Arundo riparia Salisb., Prodr. Stirp. Chap. Allerton 24. 1796, nom. superfl. & illeg.

Type. “Habitat in Europae subhumidis adripas lacuum.” Lectotype: *Herb. Linn. No. 78.7* (LINN). LT designated by Anderson in *Iowa State J. Sci.* 36: 37. 1961.

Distribution. Bihar, Jammu and Kashmir, Tamil Nadu [China, Pakistan].

Habit. Perennial.

462. *Phalaris canariensis* L., Sp. Pl. 1: 54. 1753

Phalaris avicularis Salisb., Prodr. Stirp. Chap. Allerton 17. 1796, nom. superfl. & illeg.

Type. “Habitat in Europa australi, Canariis.” Proposed Conserved Type: Herb. Clifford: 23, *Phalaris* 1 (BM-000557659). Type designated by Baldini & Jarvis in Taxon 40: 482. 1991.

Distribution. India [China, Pakistan]. Naturalized, native to Mediterranean region.

Habit. Annual.

Remarks. States in India not recorded.

463. *Phalaris minor* Retz., Observ. Bot. (Retzius) 3: 8. 1783 var. *minor*

Lectotype. LINN 89/31.1962. LT designated by R.M. Baldini in Webbia 47(1): 22. 1993.

Distribution. Andhra Pradesh, Assam, Bihar, Delhi, Himachal Pradesh, Jammu and Kashmir, Madhya Pradesh, Maharashtra, Manipur, Nagaland, Odisha, Rajasthan, Tamil Nadu, Uttar Pradesh, Uttarakhand [Bhutan, China, Pakistan].

Habit. Annual.

464. *Phalaris minor* Retz. var. *nepalensis* (Trin.) Bor, Grasses Burma, Ceylon, India & Pakistan 616. 1960

Phalaris nepalensis Trin., Sp. Gram. [Trinius] 1(7): t. 80. 1827. Type: “Figura as specimen nepalense.” Lectotype: *Trinius, Sp. Gram. Icon. t. 80. 1827*. LT designated by Baldini in Webbia 49(2): 279. 1995.

Distribution. Bihar, Maharashtra, Uttar Pradesh, Uttarakhand [Nepal].

Habit. Annual.

465. *Phalaris paradoxa* L., Sp. Pl., ed. 2. 2: 1665. 1763

Type. “Habitat in Oriente. P. Forskåhl.” Lectotype: *Herb. Linn. No. 78.6* (LINN). LT designated by Anderson in Iowa State J. Sci. 36: 22. 1961.

Distribution. Northwest India [China, Pakistan].

Habit. Annual.

Remarks. States in India not recorded.

***Phippsia* (Trin.) R. Br., Chlor. Melvill. 27. 1823**

Vilfa subg. *Phippsia* Trin. in K.P.J. Sprengel, Neue Entdeck. Pflanzenk. 2: 37. 1820 (as “*Phipsia*”)

Type. *Phippsia algida* (Sol.) R. Br. (*Agrostis algida* Sol.).

466. *Phippsia algida* (Sol.) R. Br., Chlor. Melvill. 27. 1823

Agrostis algida Sol., Voy. North Pole 200. 1774. Type: Arctic: “voyage toward the North Pole.” [syntype (BM): Capt. Phipps, Spitsbergen]

Distribution. Uttar Pradesh [also in Europe, North America].

Habit. Perennial.

Remarks. Distribution in India fide Naithani (1990). Taxonomic editor Soreng comments that it is doubtful that this species actually occurs in India.

***Phleum* L., Sp. Pl. 1: 59. 1753**

Lectotype. *Phleum pratense* L. LT designated by Nash in N.L. Britton & A. Brown, Ill. Fl. N. U.S. ed. 2. 1: 190. 1913; affirmed by Hitchcock Bull. U.S.D.A. 772: 140. 1920.

467. *Phleum alpinum* L., Sp. Pl. 1: 59. 1753

Phleum commutatum Gaudin, Alpina 3: 4. 1808. Type: “Auf den höheren Alpen im Wallis... z.b. auf den Bernhard und auf den Alpen des Visperthals. Ludw. Thomas, Schleicher.” European Alps, alt. 6400–13000 ft.

Type. “Habitat in Alpibus.” Lectotype: *Herb. Linn. No. 81.4* (LINN). LT designated by Bowden in Canad. J. Bot. 43: 286. 1965.

Distribution. Jammu and Kashmir, Uttar Pradesh, Uttarakhand [Afghanistan, Bhutan, China, Pakistan].

Habit. Perennial.

468. *Phleum himalaicum* Mez, Repert. Spec. Nov. Regni Veg. Beih. 17: 293. 1921

Phleum arenarium L. var. *thomsonii* Griseb., Nachr. Königl. Ges. Wiss. Georg-Augusts-Univ. 83. 1868. Type: Himalaya occidentalis, 6000–8000 ft.; *Thomson s.n.*

Phleum arenarium sensu Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 237. 1896, non L., 1753

Syntypes. Afghanistan; *Griffith s.n.* Northwest Himalaya; *Thomson s.n.* Kashmir; *Meebold s.n.*

Distribution. Himachal Pradesh, Jammu and Kashmir [Afghanistan, Pakistan].

Habit. Annual.

469. *Phleum paniculatum* Huds., Fl. Angl. (Hudson) 23. 1762

Phleum asperum Jacq., Collectanea [Jacquin] 1: 110. 1786. Type: "Gramen hoc quibusdam in Europe provinciis sponte obvium."

Type. "Habitat in partes infra King's Waston prope Bristolium."

Distribution. Himachal Pradesh, Jammu and Kashmir [Afghanistan, China, Pakistan].

Habit. Annual.

470. *Phleum pratense* L. var. *pratense*, Sp. Pl. 1: 59. 1753

Type. "Habitat in Europae versuris & pratis." Lectotype: *Herb. Linn. No. 26* (LAPP). LT designated by Humphries in Jarvis et al. (ed.), *Regnum Veg.* 127: 75. 1993.

Distribution. Assam [China].

Habit. Perennial.

471. *Phleum pratense* L. var. *nodosum* (L.) Arcang., Compend. Fl. Ital. 757. 1882

Phleum nodosum L., *Syst. Nat.* ed. 10:871. 1759.

Distribution. Nagaland.

Habit. Perennial.

Remarks. Distribution in India fide Naithani (1990). It is unclear if this species is naturalized in India.

***Poa* L., Sp. Pl. 1: 67. 1753**

Lectotype. *Poa pratensis* L. LT designated by Nash in N.L. Britton & A. Brown, Ill. Fl. N. U.S. ed. 2. 1: 252. 1913; affirmed by Hitchcock Bull. U.S.D.A. 772: 41. 1920.

472. *Poa aitchisonii* Boiss., Fl. Orient. (Boissier) 5: 602. 1884 (as “aitchisoni”)

Type. Afghanistan; Kurum Valley; *Aitchinson* 405, 497.

Distribution. Northwest India [Afghanistan].

Habit. Perennial.

Remarks. Records from Bor (1960) and Zhu et al. (2006).

473. *Poa alpina* L., Sp. Pl. 1: 67. 1753

Type. “Habitat in alpinis Lapponicis, Helveticis.” Lectotype: *Herb. Linn. No. 87.2* (LINN). LT designated by Soreng in Cafferty et al. (ed.), *Taxon* 49: 254. 2000.

Distribution. Assam, Jammu and Kashmir, Himachal Pradesh, Uttar Pradesh, Uttarakhand [Afghanistan, China, Nepal, Pakistan].

Habit. Perennial.

Remarks. Records from Bor (1960) and Zhu et al. (2006).

474. *Poa annua* L., Sp. Pl. 1: 68. 1753

Type. “Habitat in Europa ad vias.” Lectotype: *Herb. Linn. No. 87.17, right specimen* (LINN). LT designated by Soreng in Cafferty et al. (ed.), *Taxon* 49: 254. 2000.

Distribution. Assam, Bihar, Delhi, Himachal Pradesh, Jammu and Kashmir, Karnataka, Kerala, Meghalaya, Punjab, Rajasthan, Tamil Nadu, Uttar Pradesh, Uttarakhand [Afghanistan, Bhutan, China, Myanmar, Nepal, Pakistan, Sri Lanka]. Native to Eurasia and weedy elsewhere around the world.

Habit. Annual.

Remarks. Records from Bor (1960) and Zhu et al. (2006).

475. *Poa arnoldii* Melderis, Enum. Fl. Pl. Nepal 1: 142. 1978.

Poa albertii ssp. *arnoldii* (Melderis) Olonova & G.H. Zhu, *Fl. China* 22: 308. 2006.

Poa mustangensis Rajbh., *Acta Phytotax. Geobot.* 39(1–3): 61. 1988. Type: Nepal: Mustang Distr., 4900 m, in open place, 25 July 1983; *Rajbhandari* 8352 (TI, KATH)

Type. Nepal: west, 5 mi NE of Saipal, scree, 5600 m, 25 Aug. 1954, *J.E.M. Arnold* 226 (BM).

Distribution. Uttarakhand [Nepal].

Habit. Perennial.

Remarks. Specimen records for Uttarakhand listed by Nautiyal and Gaur (2017). Zhu et al. (2006) place this as a subspecies of *P. albertii* and also consider *P. mustangensis* as a synonym.

476. *Poa asperifolia* Bor, Kew Bull.1952: 130. 1952

Type. China: Tibet, Pembu La, 10–15 miles north from Lhasa; September, 1904; *H.J. Walton s.n.* (K).

Distribution. Sikkim [Bhutan, China].

Habit. Perennial.

Remarks. Record for Sikkim fide Naithani (1990).

477. *Poa attenuata* Trin., Mém. Acad. Imp. Sci. St.-Pétersbourg Divers Savans 2: 527. 1835

Type. Russia: Siberia, Altai Mountain, “in montosis ad fontem fluvii”; July, 1833; *D. Bunge s.n.* (LE-TRIN-2584.01, Isotype).

Distribution. India (Northwest Himalaya) [Pakistan].

Habit. Perennial.

Remarks. Records from Bor (1960) and Zhu et al. (2006). Taxonomic editor Soreng notes that Olonova (pers. comm.) doubts that this species, at least in its strict sense, occurs in India.

478. *Poa bactriana* Roshev., Bot. Mater. Gerb. Glavn. Bot. Sada RSFSR 4: 93. 1923

Poa bactriana Roshev. ssp. *glabriflora* (Roshev. ex Ovcz.) Tzvelev, Novosti Sist. Vyssh. Rast. 10: 96. 1973

Poa bulbosa var. *glabriflora* Roshev. ex Ovcz., Fl. Turkmen. 1(2): 143. 1932 Lectotype: N. Desyatova [N. Dessinatoff 1398]; 25 Jun 1913; [Tadjikistan]: Iter ad distr. Margelan, Alai valley, Valley of Dara Rv., from Izmail burial ground to Aran-Kungei winter quarters, soft hillocks (LE). ILT: LE.

Lectotype. V. Lipsky; ; Turkmenistan: Gissar Range southern slope, Pyanj Khan, 7800 ft (LE; ILT: K-969/64, LE) LT cited by Tzvelev, Zlaki SSSR 450 (1976).

Distribution. Himachal Pradesh, Jammu and Kashmir [Afghanistan, China, Pakistan].

Habit. Perennial.

Remarks. Records from Bor (1960) and Zhu et al. (2006). Taxonomic editor Soreng has investigated the lectotypification of *P. bulbosa* var. *glabriflora*. He notes that

Tzvelev (Zlaki SSSR p 450, 1976), cited the Desyatova specimen as the holotype of *P. glabriflora* Roshev. ex Ovcz., and therefore he (Soreng) takes this to be the lectotype. Roshevits did not cite any material. OM: S. Nevski 464; 27 Jun 1931; [Uzbekistan] Turkomania orientalis: In regione subalpina montium Kuhitang supra pagum Chodsha-i-fil (K-67, K-68) K-67 was annotated as *P. glabriflora* by Roshevits in 1931, but this specimen keys to *P. bactriana* subsp. *drobovi* in Tzvelev (1976); fide RJS 2004.

479. *Poa bucharica* Roshev., Bot. Mater. Gerb. Glavn. Bot. Sada RSFSR 4: 94. 1923 ssp. *bucharica*

Type. LT: V. Lipskii; 2 Aug 1896; Afghanistan: Bukhara, southern slope of Gissar range, upper reaches of Sio River, 10000 ft (LE; ILT: K). LT: cited by Tzvelev, Zlaki SSSR p. 462 (1976).

Distribution. Jammu and Kashmir [Afghanistan, China].

Habit. Perennial.

Remarks. Records from Bor (1960) and Zhu et al. (2006).

480. *Poa bucharica* Roshev. ssp. *karateginensis* (Roshev. ex Ovcz.) Tzvelev, Novosti Sist. Vyss. Rast. 11: 28. 1974

Poa karateginensis Roshev. ex Ovcz., Izv. Tadzh. Bazy Akad. Nauk. SSSR 1(1): 12, 26. 1933. Type: Tajikistan: Buchar, Nusratabadskij Range, Karategin, Karashibet glacier, 3000 m, 3–15 Aug 1896, V. Lipski. HT: LE; IT: K, LE

Poa suruana H. Hartmann, Candollea 39(6): 516–519. f. 1. 1984. Type: India: Karakorum, Skardu, Suru, Sanmodagsa (Gulmatungo) 12500 ft.; August 27; 1976; *H. Hartmann* 2873 (G).

Distribution. Jammu and Kashmir [China].

Habit. Perennial.

481. *Poa bulbosa* L. var. *vivipara* Koeler, Descr. Gram. 189. 1802

Poa bulbosa L. ssp. *vivipara* (Koeler) Arcang., Comp. Fl. Ital. 785. 1882

Paneion bulbosum var. *viviparum* (Koeler) Lunell, Amer. Midl. Naturalist 4: 222. 1915

Poa bulbosa L. forma *vivipara* (Koeler) Maire, Fl. Afrique N. 3: 86. 1855

Type. Prope Moguntiam [Mainz, Germany] in arenosis.

Distribution. Himachal Pradesh, Jammu and Kashmir [Afghanistan, China, Nepal, Pakistan].

Habit. Perennial.

Remarks. Records from Bor (1960) and Zhu et al. (2006). Taxonomic editor Soreng notes that possibly all collections in India are more or less viviparous, and doubts that any representatives of *P. bulbosa* var. *bulbosa* occur there. Bor (1960, p. 556) also indicates “almost invariably found as var. *vivipara*”.

482. *Poa burmanica* Bor, Kew Bull. 3: 141. 1948.

Type. Myanmar: Kachin State, Myitkyina Distr., Hpimaw Pass, 11,000 ft, 6 Aug. 1929, *Sukoe 10074* (K).

Distribution. Arunachal Pradesh, Sikkim, Uttarakhand [Bhutan, China, Myanmar].

Habit. Perennial.

Remarks. Specimen records for India listed by Nautiyal and Gaur (2017). This species is also accepted by Zhu et al. (2006) in the *Flora of China*.

483. *Poa calliopsis* Litw. ex Ovcz., Izv. Tadzhik. Bazy Bot. 1: 11, 18. 1933

Lectotype. Th. Alexeenko 3023/1451; 26 July 1901; Tajikistan: Pamir in angustiis ad fauces Chargosch. N. versus in pratis, 4300–5500 m (LE) LT designated (as holotype) by Roshevits, Fl. SSSR 2: 755 (1934).

Distribution. Himachal Pradesh, Jammu and Kashmir [Bhutan, China, Nepal, Pakistan].

Habit. Perennial.

Remarks. Records from Bor (1960) and Zhu et al. (2006).

484. *Poa compressa* L., Sp. Pl. 1: 69. 1753

Type. “Habitat in Europae & Americae septentrionalis siccis. muris, tectis.” Lectotype: *Herb. Linn. No. 87.41* (LINN). LT designated by Soreng in Cafferty et al. (ed.), *Taxon* 49: 255. 2000.

Distribution. Himachal Pradesh, Jammu and Kashmir [China].

Habit. Perennial.

Remarks. Records from Bor (1960) and Zhu et al. (2006).

485. *Poa diaphora* Trin., Bull. Sci. Acad. Imp. Sci. Saint-Pétersbourg 1: 69–70. 1836

Poa persica var. *diaphora* (Trin.) Asch. & Graebn., *Syn. Mitteleur. Fl.* [Ascherson & Graebner 2: 437. 1900

Aira altaica Trin., *Mém. Acad. Imp. Sci. St.-Pétersbourg Divers Savans* 2: 526. 1835

Eremopoa altaica (Trin.) Roshev., Fl. URSS 2: 431. t. 32. f. 13. 1934

Distribution. Himachal Pradesh, Jammu and Kashmir [Afghanistan, China, Pakistan].

Habit. Annual.

486. *Poa diaphora* Trin. var. *songarica* (Schrenk ex Fisch. & C.A. Mey.) Soreng, Cabi & L.J. Gillespie, *PhytoKeys* 111: 85. 2018.

Glyceria songarica Schrenk ex Fisch. & C.A. Mey., Enum. Pl. Nov. 1: 1. 1841. Type: Kazakhstan: “ad fl. Karatai versus montes Karatau”; June 13, 1840; *H. Schrenk s.n.* (LE).

Poa songarica (Schrenk ex Fisch. & C.A. Mey.) Boiss., Fl. Orient. (Boissier) 5: 611. 1884 (as “soongarica”)

Eremopoa songarica (Schrenk ex Fisch. & C.A. Mey.) Roshev., Fl. URSS 2: 431. t. 32. f. 11. 1937 (as “soongorica”)

Poa persica Trin. var. *songarica* (Schrenk ex Fisch. & C.A. Mey.) Stapf, Fl. Brit. India (J.D. Hooker)

Eremopoa persica (Trin.) Roshev. var. *songarica* (Schrenk ex Fisch. & C.A. Mey.) Bor, Grasses Burma, Ceylon, India & Pakistan 532. 1960

Eremopoa altaica (Trin.) Roshev. var. *songarica* (Schrenk ex Fisch. & C.A. Mey.) Tzvelev, Poaceae URSS 479. 1976

Eremopoa altaica subsp. *songarica* (Schrenk ex Fisch. & C.A. Mey.) Tzvelev, Botanicheskii Zhurnal (Moscow & Leningrad) 51(8): 1104. 1966

Nephelochloa songarica (Schrenk ex Fisch. & C.A. Mey.) Griseb., Fl. Ross. [Ledebour] 4: 367. 1852 (as “soongorica”)

Distribution. Jammu and Kashmir, Uttar Pradesh [Afghanistan, Pakistan].

Habit. Annual.

Remarks. Records from Bor (1960) and Zhu et al. (2006). Taxonomic editor Soreng places *P. songarica* as a variety of *P. diaphora*.

487. *Poa dzongicola* Noltie, *Edinburgh J. Bot.* 57(2): 283, f. 1M-P. 2000

Poa yakiangensis L. Liou, Fl. Reipubl. Popularis Sin. 9(2): 405. 2002

Type. HT: I.W.J. Sinclair & D. G. Long 5396; 28 Sep 1984; Bhutan: Upper Mo Chu District, Lingshi Dzong, 27°55', 89°27', on wall of dzong, ca. 4100m (E).

Distribution. Sikkim [Bhutan, China].

Habit. Annual.

Remarks. Records from Bor (1960) and Zhu et al. (2006).

488. *Poa eleanorae* Bor, Kew Bull. 1948: 142. 1948

Type. H.A. Cummins; "Laid in" 13 Jun 1894; India: Northeast Sikkim. K000789631.

Distribution. Sikkim, Uttarakhand [Bhutan, Nepal].

Habit. Perennial.

Remarks. Records from Bor (1960), and Nautiyal and Gaur (2017).

489. *Poa falconeri* Hook. f. ex Stapf, Fl. Brit. India (J.D. Hooker). 7(22): 342. 1896

Syntypes. *Falconer*; 10 Aug. 1870–1871; Garwahl, 12–13000 ft (K000789637; IST: K000789636) [Jumnotri to Kasauli, Uttar Pradesh to Himachal Pradesh]; *Duthie* 288; 16 Aug. 1983; India: Uttar Pradesh: Tihri-Garwhal, in Nila Valley 12–13,000 ft (K000789635).

Distribution. Himachal Pradesh, Jammu and Kashmir, Uttar Pradesh, Uttarakhand [Pakistan, Nepal].

Habit. Perennial.

490. *Poa gamblei* Bor, Kew Bull. 1948: 144. 1948

Type. India: Madras, Nilgiris Distr. Ootacamund, 7000 ft, Sep 1886, *J.S. Gamble* 18129 (K000789628).

Distribution. Himachal Pradesh, Tamil Nadu.

Habit. Perennial.

Remarks. Records from Bor (1960).

491. *Poa gammieana* Hook. f. ex Stapf, Fl. Brit. India (J.D. Hooker). 7(22): 345. 1896

Type. India: Sikkim, Tankra Mountains, alt. 12000 ft.; August 5, 1892; *G.A. Gammie* 641 (HT: (K000789632).

Distribution. Assam, Sikkim, Uttarakhand [Bhutan].

Habit. Perennial.

Remarks. Records from Bor (1960), and Nautiyal and Gaur (2017).

492. *Poa garhwalensis* D.C. Nautiyal & R.D. Gaur, J. Bombay Nat. Hist. Soc. 96(2): 285. 1999.

Type. Jammu-Kashmir: NW Himalaya, Leptal, 4000m, 4 Aug 1996; *D.C. Nautiyal* (GUH-13501A).

Distribution. Jammu and Kashmir, Uttarakhand.

Habit. Perennial.

493. *Poa glauca* Vahl, Fl. Dan. 6(17): 3, pl. 964. 1790.

Poa araratica s. auct., non Trautv.

Poa sterilis M. Bieb., Fl. Taur.-Caucas. 1: 62. 1808. Type: “Habitat in tauriae collibus apricis sterilibus [Crimea].” (LE).

Type. “Legi tantummodo in paroecia Vang (Valders) ad pedes montium, in Finmarkia non frequens.”

Distribution. Arunachal Pradesh, Assam, Bihar, Himachal Pradesh, Jammu and Kashmir, Uttarakhand [China, Nepal, Pakistan].

Habit. Perennial.

Remarks. Records from Bor (1960) and Zhu et al. (2006). Taxonomic editor Soreng notes that the specialist in this group of *Poa* (sect. *Stenopoa*), M.V. Olonova, now considers *P. araratica* to be a taxonomic synonym of *Poa glauca* Vahl. but probably does not extend to India. The Cenral Asian plants may be better treated as *Poa glauciculmis* Ovcz. More research is needed. Certainly the taxonomy of this section is complex; see (Zhu et al. 2006). *Poa glauca* is circumboreal and also occurs in S America. *Poa sterilis* was accepted as a separate species by Bor (1960) and Zhu et al. (2006), but now is considered a synonym of *P. glauca* s.l. or possibly *P. nemoraliformis* and almost certainly does not occur in India.

494. *Poa harae* Rajbh., Acta Phytotax. Geobot. 39(1–3): 55. 1988

Type. Nepal: Sagarmantha Zone, Solukhumbu Distr., Denikharka (Dambuk) – Yurigolcha, 4600m, on grassy slope, 23 Aug 1985; *Rajbhandari* 61665 (TI, KATH).

Distribution. Uttarakhand [Nepal].

Habit. Perennial.

Remarks. Not listed for China by Zhu et al. (2006).

495. *Poa himalayana* Nees, Syn. Pl. Glumac. (Steudel) 1: 256. 1854

Poa stewartiana Bor, Kew Bull.1951: 185. 1951. Type: India: Jaunsar District, Mandal, 6400 ft.; May 5, 1897; *J.F. Duthie* 19777 (K).

Type. Nepal, Lectotype: India: Uttar Pradesh, Mussooree, Shalma; *Royle* 163 on 187/163 (LIV-12514). LT designated by Noltie in Edinburgh J. Bot. 57(2): 289. 2000.

Distribution. Himachal Pradesh, Jammu and Kashmir, Uttarakhand, Uttar Pradesh [Pakistan, Nepal, Tibet, China].

Habit. Perennial.

Remarks. Records from Bor (1960) and Nautiyal and Gaur (2017). Taxonomic editor Soreng notes that *Poa himalayana* sensu Bor is *Poa rajbhandari*; see Noltie (2000). *Poa stewartiana* Bor is *Poa himalayana*.

496. *Poa hirtiglumis* Hook. f. ex Stapf, Fl. Brit. India (J.D. Hooker). 7(22): 343–344. 1896

Type. India: Sikkim: Donkaih Pass, alt. 18000 ft.; September 9, 1849; *Herb. Ind. Or. J.D. Hooker & Thomson s.n.* (K).

Distribution. Assam, Sikkim, Uttarakhand [Bhutan, Nepal].

Habit. Perennial.

Remarks. Records from Bor (1960) and Nautiyal and Gaur (2017).

497. *Poa hylobates* Bor, Bull. Bot. Surv. Ind. 7: 132. 1965

Type. Nepal: near Tarakoti, Bheri River, 10500 ft, grassy clearings in mixed forest, 13 July 1952; *Polunin, Sykes & Williams 2445* (K, BM).

Distribution. Uttarakhand [China, Nepal].

Habit. Annual.

Remarks. This species is also reported for China by Zhu et al. (2006).

498. *Poa infirma* Kunth, Nov. Gen. Sp. [H.B.K.] 1: 158 (ed. qto.). 1816

Catabrosa thomsonii Stapf ex Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 311. 1896 (as “thomsoni”). Type: China: Xizang, Nubra Valley, alt. 10000–11000 ft.; *T. Thomson s.n.*

Poa annua L. ssp. *exilis* Tomm. ex Freyn, Verh. K.K. Zool.-Bot. Ges. Wien 27: 469. 1878 (“1877”). Type: Langs der Kust von Fasana bis Medolino; auch auf S. Marina; 1872; *Tommasini s.n.*

Poa exilis (Tomm. ex Freyn) Murb., Syn. Mitteleur. Fl. [Ascherson & Graebner]. 2(1): 389. 1900

Poa remotiflora (Hack.) Murb., Acta Univ. Lund. 36(2): 22. 1900, non Rupr., 1845.

Poa annua L. forma *remotiflora* Hack., Flore de l’Algérie 2: 206. 1895. (Fl. Algérie). Type: Algeria: Lieux humides et region Montagneuse, Rouiba, Teniet-el-Haad.

Type. Colombia; August, 1801; *Humboldt & Bonpland 134* (P). “Crescit in frigidis regni Novogranatensis, inter Fonibon, Suba et Santa Fe de Bogota, 1360 hexap.”

Distribution. Bilaspur, Uttarakhand. [Introduced. Widespread in Europé and North America].

Habit. Annual.

Remarks. Records from Bor (1960) and Nautiyal and Gaur (2017).

499. *Poa kanaii* Rajbh., Acta Phytotax. Geobot. 39(1–3): 58. 1988

Type. Nepal: Mustang Distr., Thourungse, 4600 m, in open place, 25 Jul 1983; Rajbhandari 8356 (TI, KATH).

Distribution. Uttarakhand [Nepal].

Habit. Perennial.

Remarks. Not listed for China by Zhu et al. (2006).

500. *Poa khasiana* Stapf, Fl. Brit. India (J.D. Hooker). 7(22): 343. 1896

Lectotype. Designated by Bor, Bombay Natur. Hist. Soc. J. 50: 831 (1952), without indication of herb. As in the protolog, this was originally det as “*P. himalayana* Nees”. Stapf’s figures pinned on illustrate the LT, K000789598.

Distribution. Arunachal Pradesh, Assam, Meghalaya, Nagaland, Sikkim, Uttarakhand, West Bengal [China, Myanmar, Nepal].

Habit. Perennial.

Remarks. See also Nautiyal and Gaur (2017) for additional discussion of this species.

501. *Poa koelzii* Bor, Kew Bull. 1948: 139–140. 1948

Poa albertii Regel ssp. *kunlunensis* (N.R. Cui) Olonova & G.H. Zhu, Flora of China 22: 308. 2006

Poa festucoides Lam. ssp. *kunluensis* N.R. Cui, Acta Botanica Boreali-Occidentalia Sinica 7(2): 97, f. 8. 1987, nom. hom. illeg.

Type. India: Kashmir, Tsakzhun Tso, Ladakh, alt. 15000 ft.; July 20, 1931; *Walter Koelz* 2385 (holotype: K000789620).

Distribution. Himachal Pradesh, Jammu and Kashmir, Ladakh, Uttar Pradesh, Uttarakhand [China, Pakistan].

Habit. Perennial.

Remarks. See discussion in Nautiyal and Gaur (2017).

502. *Poa lahulensis* Bor, Kew Bull. 1948: 138. 1948

Poa albertii Regel ssp. *lahulensis* (Bor) Olonova & G.H. Zhu, Fl. China 22: 309. 2006

Type. Kashmir: Lingti, Lahul, alt. 12000 ft.; June 29, 1941; *N.L. Bor* 15024 (K).

Distribution. Himachal Pradesh, Jammu and Kashmir, Uttarakhand [China, Pakistan].

Habit. Perennial.

Remarks. Records for India confirmed by M. Olonova. Specimens for Uttarakhand cited by Nautiyal and Gaur (2017).

503. *Poa lhasaensis* Bor, Bull. Bot. Surv. India 7: 132. 1965

Poa jaunsarensis Bor, Kew Bull. 1948: 143. 1948. Type: India: Kumaon, Kutti Yangti Valley, Byans, 12000–13000 ft.; July 30, 1886; *J.F. Duthie* 6224 (K000789644).

Type. China: Xizang: Lhasa, 10000 ft., Sep 1904 Collector and Number: Walton s.n. (K).

Distribution. Himachal Pradesh, Jammu and Kashmir, Uttar Pradesh, Uttarakhand [Pakistan, China, Nepal].

Habit. Perennial.

Remarks. Records for Uttar Pradesh and Nepal fide Naithani (1990). Taxonomic editor Soreng notes that *Poa jaunsarensis* was accepted as *Poa lhasaensis* Bor by Bor (1960) and Zhu et al. (2006), but this is considered tentative.

504. *Poa litvinoviana* Ovcz., Izv. Tadzhik. Bazy Bot. 1: 22. 1933

Poa glauca Vahl ssp. *litwinowiana* (Ovcz.) Tzvelev, Novosti Sist. Vyssh. Rast. 11: 32. 1974. Type: USSR, Tadzhikistan; Tajikistan: Pamiro-Alaj, Tian Shan, distr. Matscha, inter rupibus in montibus Zeravschanicis pr. glaciem zeravschanicum, 4500–4700 m, 16 July 1927, *Drobov* 354 (LE).

Distribution. Jammu and Kashmir [China, Pakistan].

Habit. Perennial.

505. *Poa mairei* Hack., Repert. Spec. Nov. Regni Veg. 12(333–335): 387. 1913

Poa pseudo-pratensis Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 340. 1896, non Beyer, 1891 nec Scribn. & Rydb., 1896. Syntypes: Nepal; *Wallich* s.n. Sikkim and Western Bhutan, alt. 10000–12000 ft.; *J.D. Hooker* s.n. Sine loc; *Cummins* s.n.

Poa patens Keng ex Keng f., Acta Botanica Yunnanica 4(3): 276–277. 1982. Type: China: Yunnan; Yulong Shan, eastern slopes of mount Dyinaloko, northern peak of Likang Snow Range, 1923, *J.F. Rock* 10427 (HT: US-1214301)

Poa ludens R.R. Stewart, Brittonia 5(4): 420. 1945, nom. nov. for *Poa pseudo-pratensis* Hook. f.

Type. China; Yunnan, pr. Tong-Tchouan, 1910, *R.P. Maire 6992, ser. B* (HT: W).

Distribution. Assam, Jammu and Kashmir, Punjab, Sikkim [Bhutan, China, Nepal].

Habit. Perennial.

Remarks. Records from Bor (1960) and Zhu et al. (2006).

506. *Poa nemoraliformis* Roshev., Bot. Mater. Gerb. Bot. Inst. Komarova Akad. Nauk SSSR 11: 30. 1949.

Syntypes. India, Himachal Pradesh, Bor. or *Poa relaxa* Ovcz., *Izv. Tadzh. Bazy Akad. Nauk. SSSR* 1(1): 20, f. 2. 1933. Type: Tajikistan: western Zeravshan range, near Marguzarsky Lake, stony screes along NW slope of Mun-Kua Mt., 2900 m, 20 Aug. 1932. P. Ovchinnikov & A. Slobodov 1257.

Distribution. West Himalaya [China].

Habit. Perennial.

507. *Poa nemoralis* L., Sp. Pl. 1: 69. 1753

Type. “Habitat in Europa ad radices montium umbrosas.” Lectotype = “Gramen paniculatum angusti-folium Alpin. Locustis rarioribus et angustioribus non aristatis” in Scheuchzer, *Agrostographia Helv. Prodr.*, 18. t. 2. 1708. LT designated by Soreng in Cafferty et al. (ed.), *Taxon* 49: 255. 2000. Epitype: Sweden. Uppland: Danmark Parish, Linnés Hammarby; June 14, 1933; *Hylander s.n.* (BM). Epitype designated by Soreng, R. & Edmondson, J. in Cafferty et al. (ed.), *Taxon* 49: 255. 2000.

Distribution. Arunachal Pradesh, Himachal Pradesh, Jammu and Kashmir, Sikkim, Tamil Nadu, Uttar Pradesh, Uttarakhand, West Bengal [Bhutan, China, Nepal, Pakistan].

Habit. Perennial.

508. *Poa nepalensis* (Wall. ex Griseb.) Wall. ex Duthie, List Grasses N.W. India 40. 1883 var. *nepalensis*

Poa annua L. var. *nepalensis* Wall. ex Griseb., *Nachr. Königl. Ges. Wiss. Georg-Augusts-Univ.* 75. 1868. Lectotype: *Strachey & Winterbottom 13*, India orientali: Kumaon, Binsar, 2300 m (K; ILT: BM)

Poa nephelophila Bor, *Kew Bull.* 1948: 140. 1948

Distribution. Himachal Pradesh, Sikkim, Uttar Pradesh, Uttarakhand [Bhutan, China, Myanmar, Nepal, Pakistan].

Habit. Annual.

Remarks. Taxonomic editor Soreng notes that the lectotype of *P. annua* var. *nepalensis* was designated by Bor (1952) without indication of herbarium. The K specimen was cited as the holotype by Cope (1982) and by Rajbhandari (1991). Lectotype here designated (refined), K000789542 = p.p. “a”, by R.J. Soreng per annotation 2010 on specimen. (p.p. “b”, is *Poa setulosa* Bor.) The placement of *P. nephelophila* in synonymy here follows Bor (1960) and Nautiyal and Gaur (2017).

509. *Poa nitide-spiculata* Bor, Kew Bull. 1948: 139. 1948

Type. India: Sikkim Himalaya, Valley running into Teesta from West, Tangu, alt. 13500–14000 ft.; July 13, 1903; *F.E. Younghusband s.n.* (K000789633).

Distribution. Sikkim [China, Nepal].

Habit. Perennial.

Remarks. Records for Sikkim and Nepal fide Naithani (1990).

510. *Poa pagophila* Bor, Fl. Iranica 70: 38. 1970

Poa pagophila Bor, Kew Bull. 1949: 239. 1949, nom. inval., without Latin. Type: Sikkim: Yeumtang, 4600 m, 6 Sept. 1849, *Hooker f. s.n.* (HT: K000789639; IT: GOET-006888)

Poa flexuosa sensu Stapf, Fl. Brit. India (J.D. Hooker). 7(22): 342. 1896, non Sm., 1800, nec Wahlb., 1814

Distribution. Jammu and Kashmir, Sikkim, Uttar Pradesh, Uttarakhand [Bhutan, China, Nepal, Pakistan].

Habit. Perennial.

Remarks. Taxonomic editor Soreng notes that Bor’s 1949 publication of *P. pagophila* was invalid, lacking a Latin description. Bor cited only the English description of *P. flexuosa* sensu Stapf. The Latin description was provided by Bor (1970), p. 38. Stapf clearly attributed *P. flexuosa* to Wahlberg.

511. *Poa palustris* L., Syst. Nat., ed. 10. 2: 874. 1759

Poa serotina Ehrh., Beitr. Naturk. (Ehrhart) 6: 83. 1791, nom. nud.; Ehrh. ex Hoffm., Fl. Germ. 1: 299. 1806. Type: Upsaliae

Type. “Habitat [in Helvetiae, Italiae paludibus.] Sp. Pl., ed. 2. 1: 99. 1762.” Lectotype: Herb. Linn. No. 87.21 (LINN). LT designated by Soreng in Cafferty et al. (ed.), Taxon 49: 256. 2000.

Distribution. Jammu and Kashmir, Uttarakhand [China, Pakistan]. Introduced; native to temperate regions of the Northern Hemisphere.

Habit. Perennial.

512. *Poa persica* Trin., Mém. Acad. Imp. Sci. St.-Pétersbourg, Sér. 6, Sci. Math. 1: 373. 1830 var. *persica*

Eremopoa persica (Trin.) Roshev., Fl. URSS 2: 430. t. 32. f. 8. 1934

Festuca persica (Trin.) C. Koch, Linnaea 21: 410. 1848

Nephelochloa persica (Trin.) Griseb., Fl. Ross. [Ledebour] 4: 366–367. 1852

Poa heptantha (C. Koch) Steud., Syn. Pl. Glumac. 1: 255. 1854

Festuca heptantha C. Koch, Linnaea 21: 410. 1848. Type: “Im Hochgebirge, auf sumpfigen Wiesen, auf Urgestein, 5500 ft.” (B).

Festuca polygama C. Koch, Linnaea 21: 409. 1848. Type: “aus dem Wilhelm’schen herbar als.” Caucasus?; *Wilhelms s.n.* (B).

Lectotype. “V. ssp. Pers.” [Caucasus; Azerbaijan]: in collibus ad Akar-Tschai prob, Karabagh; May 27, 1829; *Szowits 246* (LE). LT designated by Tzvelev in *Zlaki SSSR*. 479. 1976.

Distribution. Himachal Pradesh, Jammu and Kashmir, Uttar Pradesh, Uttarakhand [Afghanistan, Pakistan].

Habit. Annual.

Remarks. See also Gillespie et al. (2018). Records from Bor (1960) and Zhu et al. (2006).

513. *Poa polycolia* Stapf, Fl. Brit. India (J.D. Hooker). 7(22): 342. 1896

Poa chalarantha Keng ex L. Liu, Fl. Reipubl. Popularis Sin. 9(2): 390 2002. Type: *K.L. Chu 7012*, China: Sichuan: Yulinkun, ad declivitatem saxosam umbrosam, 1 April 1940 (NAS).

Poa gilgitica Dickoré, Stapfia 39: 169 1995. Type: India: Karakorum: Gilgit, Shinghai Gah - Pahot Gali 35°48'–55'N, 74°10'–17'E, *Picea smithiana* forest on NW-facing slope, veg. rec. 37, 3100m; 26 Jul 1990, *G. & S. Miehe 796* (HT: K; IT: GOET).

Poa lithophila Keng ex L. Liu, Fl. Reipubl. Popularis Sin. 9(2): 397, 2002. Type: China: Sichuan: Dêgê [ca 31.8°N 98.6°E], alt. 2800–4300 m, *Y.W. Tsui 4413* (HT: N).

Poa maerkangica L. Liu, Fl. Reipubl. Popularis Sin. 9(2): 399, 2002. Type: China: Sichuan: Maerkang, in locis gramineis declivitatibus, 2800 m, 11 May 1959, *Li Xin 70629* (HT herbarium unknown).

Poa triglumis Keng ex L. Liu, Fl. Reipubl. Popularis Sin. 9(2): 404, 2002. Type: 10 Jun 1937; Sichuan: Mu-ii, Wa-chin, bank of mt. stream, 2800m, *FIB Yunnan exp. T.T.*

Yu 6032 (HT: NAS (not found 2001 or 2004); IT: KUN-388592, KUN-388590, PE-308548)

Lectotype. *J.D. Hooker & Thomson, Herb. Ind. Or. Hf. & T. 15*, West Himalaya: Kashmir, Valley north of Chamba, 3–3500 m (K000789594; ILT; BM) LT designated by Bor B.N.H.S.J. 50: 835 (1952), without indication of herb.

Syntype. India: Kumaon, Dugli, alt. 10500 ft.; *R. Strachey & J.E. Winterbottom 11* (as *P. serotina*) (K; IST: BM).

Distribution. Jammu and Kashmir, Uttar Pradesh, Uttarakhand [Afghanistan, Bhutan, China, Nepal, Pakistan].

Habit. Perennial.

514. *Poa polyneuron* Bor, Kew Bull.1952: 223. 1952

Type. India: Sikkim, Natu La, 12800 ft.; June 23, 1945; *N.L. Bor & Kiratram 20685* (K000789638).

Distribution. Sikkim [China].

Habit. Perennial.

Remarks. Records from Bor (1960) and Zhu et al. (2006).

515. *Poa poophagorum* Bor, Kew Bull. 1948: 143. 1948 (as “poiphagorum”)

Poa albertii Regel ssp. *poophagorum* (Bor) Olonova & G.H. Zhu, Fl. China 22: 308. 2006

Type. India: Sikkim, Temu La, alt. 16000 ft.; 1912; *Rohmoo Lepcha 374* (K).

Distribution. Sikkim, Uttarakhand [China, Nepal].

Habit. Not reported.

Remarks. Taxonomic editor Soreng notes that this species was recognized at the subspecific level by Bor (1960) and Zhu et al. (2006) as *P. albertii* ssp. *poophagorum*, but more recently has been accepted as a species.

516. *Poa pratensis* L., Sp. Pl. 1: 67–68. 1753 ssp. *pratensis*, nom. cons.

Type. “Habitat in Europae pratis fertilissimis.” Conserved Type: Russia. Prov. Sanct-Petersburg, 5 km australi-occidentem versus a st. viae ferr. Mga, pratulum ad ripam dextram fl. Mga, 26 Jun 1997, Tzvelev N-257 (BM-000576302). Type designated by Soreng & Barrie in Taxon 48: 157. 1999.

Distribution. Arunachal Pradesh, Assam, Himachal Pradesh, Jammu and Kashmir, Meghalaya [Afghanistan, Bhutan, China, Myanmar, Nepal, Pakistan, Sri Lanka].

Habit. Perennial.

Remarks. Taxonomic editor Soreng notes that this species is widely seeded for lawns and pastures in cool temperate regions. It is presumably naturalized in India.

517. *Poa pratensis* L. ssp. *alpigena* (Lindm.) Hiitonen, Suom. Kasvio 205. 1933

Poa alpigena Lindm., Svensk Fanerogamflora 91. 1918. Based on “*P. pratensis* var. *alpigena*” Fr. ex Blytt, nom. illeg. superfl. for “*P. pratensis* var. *iantha*” Laest.

Poa pratensis L. var. *alpigena* Fr. ex Blytt, Norg. Flora 130. 1861. Type: “P. prat. *Alpigena* Fries Herbar. Norm. Fasc. 9.n. 93.1.p. prat. *Alpestris* Fries Summa Veget. P. 76. P. Prat. δ . *Iantha* Blytt l.c.”

Poa pratensis L. var. *iantha* Laest., Kongl[iga]. Vetenskaps Academiens Handlingar 1822: 329. 1822

Poa poophagorum Bor var. *lanata* Bor, Kew Bull. 1948: 143. 1948. Type: China: Tibet, Rongshar Valley, alt. 12000 ft.; *Hingston* s.n. (K).

Distribution. Sikkim [China, Nepal (in Naithani as ssp. *staintonii*)].

Habit. Perennial.

Remarks. Records from Bor (1960) and Zhu et al. (2006).alpina

518. *Poa pratensis* L. ssp. *angustifolia* (L.) Gaudin, Agrost. Helv. 1: 214. 1811

Poa angustifolia L., Sp. Pl. 1: 67. 1753. Type: “Habitat in Europa ad agrorum versuras.”

Lectotype: Herb. Linn. No. 87.12, excl. second culm from left (LINN). LT designated by Soreng in Cafferty et al. (ed.), Taxon 49: 254. 2000.

Poa pratensis L. var. *angustifolia* (L.) Sm., Fl. Brit. 105. 1800

Distribution. India [Afghanistan, Bhutan, China, Nepal, Pakistan]. Naturalized and possibly native; native to Europe and west and central Asia.

Habit. Perennial.

Remarks. Taxonomic editor Soreng notes that this name is widely misapplied to *Poa pratensis* ssp. *pratensis*; it could be in India, but the identifications should be checked.

519. *Poa pratensis* L. ssp. *irrigata* Lindb., Schedae Plantae Findlandiae Exsiccatae 2: 20. 1916

Poa irrigata Lindm., Botaniska Notiser 1905: 88, f. 1. 1905. (Bot. Not.), nom. incorrect as applied by the author, taxonomically superfl.; *Poa rigens* Hartm. 1820 cited as fo. within, see Art. 52 and 52.3. Isotypes: Ehrhart; Scandinavia: Upsaliae (LE)

equals *P. humilis* Ehrh., nom. nud., *P. humilis* Ehrh. ex Hoffm. Ehrhart spec. B; 1 Oct 1893; Scandinavia: Upsala (LE)

Poa subcaerulea Sm., Engl. Bot. 14: t. 1004. 1802. Type: England: Anglesea (on the Mountains of Westmoreland and Cumberland); *Rev. H. Davies s.n.*

Distribution. Jammu and Kashmir. Naturalized; native to Eurasia.

Habit. Perennial.

Remarks. Records from Bor (1960) and Zhu et al. (2006). Taxonomic editor Soreng notes that this is a common lawn grass and sometimes pasture grass, and is widely seeded. This is the currently accepted name for *Poa humilis*, and for *Poa subcaerulea* as when treated as subspecies of *Poa pratensis* L.

520. *Poa pratensis* L. ssp. *pruinosa* (Korotky) Dickoré, Stapfia 39: 173. 1995

Poa pruinosa Korotky, Repertorium Specierum Novarum Regni Vegetabilis 13: 291. 1914. (Repert. Spec. Nov. Regni Veg.) Type: *M. Korotky et al. s.n.*; 4 Jul 1912; Russia, Transbaical district, Regio lacorum Eravinensis, pr. p. Konstantinowka, pr. ripam fl. Choloj et lacos Brarun-Charga and Syntyry, in arenosis (Lectotype: LE) LT cited in Tzvelev, Zlaki SSSR 459 (1976).

Poa markgrafii H. Hartmann, Candollea 39(2): 514. f. 2. 1984. Type: India: Karakorum, Suru, Chellong Nalla, W Panikhar, 12000 ft.; *H. Hartmann 2380* (G).

Distribution. Jammu and Kashmir [China, Pakistan].

Habit. Perennial.

Remarks. Records from Bor (1960) and Zhu et al. (2006).

521. *Poa pseudamoena* Bor, Kew Bull. 1953: 276. 1953

Poa amoena Bor, Kew Bull. 1948: 140. 1949, nom. later hom., non (Presl) Kunth, 1833. Type: India: Kumaon; *R. Strachey 26/2* (K000789626).

Distribution. Uttar Pradesh, Uttarakhand [China].

Habit. Annual or short-lived perennial.

Remarks. Record for Uttar Pradesh fide Naithani (1990), and for Uttarakhand fide Nautiyal and Gaur (2017).

522. *Poa rajbhandarii* Noltie, Edinburgh J. Bot. 57(2): 288–289, f. 2M-P. 2000

Type. Sikkim: Phedang to Tsoka, S of Dzongri, 27°26'N, 88°10'E, 3500 m, 26 July 1992, Edinburgh Expedition to Sikkim and Darjeeling (ESIK) 748 (E00393984).

Distribution. Assam, Sikkim, West Bengal [Bhutan, China, Nepal].

Habit. Annual.

Remarks. *Poa himalayana* sensu Bor is *Poa rajbhandari* (see Noltie 2000). Taxonomic editor Soreng also notes that the situation is further confused by Nautiyal and Gaur (2017) accepting *P. stewartiana*.

523. *Poa royleana* Nees, *Syn. Pl. Glumac. (Steudel) 1: 256. 1854*

Type. 187/140; Mussooree (LIV (12941-I and 12941-II)[upper culm and base mounted separately] (photo K-969/176)).

Distribution. Uttar Pradesh, Uttarakhand.

Habit. Perennial.

Remarks. This species is sometimes placed as a synonym of *Poa annua*, but taxonomic editor Soreng notes that *Poa royleana* Nees ex Steud. is not at all like *P. annua*. It is a robust perennial, and a very odd one at that; it is apparently very rare. See also Rajbhandari and Edmondson (1990). Regarding the type specimen Soreng observes that the K-969/176 photo shows that both parts I and II were originally mounted on one sheet belonging to Merseyside County Museums Herbarium LIVCM 1952-121-128H with the 187/140 *Poa royleana* - Mussooree tag and the *Poa Royleana* N. ab. E.-- tag. The spikelets are shaped like *Glyceria striata*; the lemmas are (5)7-(9)veined, glabrous; the rachilla is round, smooth, glabrous; the lodicules have stiff hairs at the apex; the paleas are peculiar -- flanges appressed hispidulous, keels densely hispidulous, and between keels densely hispidulous; the caryopsis is glabrous, with a short round to ovate hilum; sheaths mostly closed ca. 1/2 the length.

524. *Poa setulosa* Bor, *Kew Bull. 1948: 142. 1948*

Poa rhadina Bor, *Kew Bull. 1948: 138. 1948*. Type: Tehri-Garwahal, Jaulea bah, Srikanta, alt. 12000–13000 ft.; *J.F. Duthie 265* (K000789593).

Type. India: Lower Kunawar; August 15, 1847; *T. Thomson s.n.* (K000789592).

Distribution. Himachal Pradesh, Jammu and Kashmir, Uttar Pradesh, Uttarakhand [Pakistan].

Habit. Annual or perennial.

Remarks. Records for Himachal Pradesh, Jammu and Kashmir, and Uttar Pradesh fide Naithani (1990). Nautiyal and Gaur (2017) separate *P. rhadina* from *P. setulosa*, and cite localities in Uttarakhand. Bor (1960) and Zhu et al. (2006) place *P. rhadina* in synonymy as done here.

525. *Poa sikkimensis* (Stapf) Bor, Kew Bull. 1952: 130. 1952

Poa annua L. var. *sikkimensis* Stapf, Fl. Brit. India (J.D. Hooker). 7(22): 346. 1896. Lectotype: India: Sikkim, Wallanchoon [Walungchung], 10000–12000 ft.; *J.D. Hooker s.n.* (K000808543). LT (called type) designated by N.L. Bor in Kew Bull. 1952: 130. 1952. (Accepted as Holotype by Rajbhandhari (1991), and as lectotype by Soreng annotation 2010).

Distribution. Assam, Jammu and Kashmir, Sikkim, Uttarakhand [Bhutan, China].

Habit. Perennial.

Remarks. Taxonomic editor Soreng notes that Bor annotated a different specimen as type in 1947 (K000808542), but later published the Wallanchoon specimen as the Type (Bor 1952). The latter was accepted as the holotype by Rajbhandhari (1991), and by Soreng in annotation.

526. *Poa sinaica* Steud., Syn. Pl. Glumac. 1: 256. 1854

Isotypes. In cacuminae montis St. Catharinae Arab.; May 19, 1835; *Schimper Unio itiner.* 326 (BM, K, S).

Distribution. India (West Himalaya) [Afghanistan, Pakistan].

Habit. Perennial.

Remarks. Records from Bor (1960) and Zhu et al. (2006). Taxonomic editor Soreng notes that this species apparently reaches to Pakistan, it is mostly viviparous over much of its range, especially eastward, and is thus difficult to separate from *Poa bulbosa* subsp. *vivipara*. It has more elongated bulbs at the base of shoots, and longer ligules than *P. bulbosa*.

527. *Poa stapfiana* Bor, Kew Bull. 1949: 239. 1949

Poa tremula Stapf, Fl. Brit. India (J.D. Hooker). 7(22): 344. 1896, non Lam., 1791. Syntypes: Temperate and Alpine Himalaya, from Kashmir, alt. 8000–15000 ft.; *Jacquemont s.n.* to Garhwal; *Duthie s.n.* Western Tibet, Ladakh; *Thomson s.n.*, *Schlagintweit s.n.*

Poa stapfiana Bor var. *micranthera* (Stapf) Bor, J. Bombay Nat. Hist. Soc. 50: 827. 1952

Poa tremula Stapf var. *micranthera* Stapf, Fl. Brit. India (J.D. Hooker). 7(22): 345. 1896. Syntypes: India: Kashmir, Palgam, 12000–13000 ft.; September 4, 1876; *C.B. Clarke s.n.*, *Duthie s.n.*

Distribution. Himachal Pradesh, Jammu and Kashmir, Sikkim, Uttarakhand [China, Nepal, Pakistan].

Habit. Perennial.

Remarks. Taxonomic editor Soreng observes that there are no worthy varieties here; all is one species. However, the Jacquemont collection, listed as a syntype of *P. tremula* is actually *P. hirtiglumis*. The lectotype designated by Rajbhandari (1991) is rejected for *P. tremula*, as it was only cited by Stapf as syntype of the var. *micranthera*.

528. *Poa supina* Schrad., Fl. Germ. (Schrader) 1: 289. 1806

Poa variegata Haller f., Cat. Pl. Helv. 38. 1800, nom. illeg., non Lam., 1791

Poa ustulata S.E. Fröhner, Botanische Jahrbücher für Systematik, Pflanzengeschichte und Pflanzengeographie 88: 437. 1968. (Bot. Jahrb. Syst.). Type: Russia: Siberia: Pamiro-Alaj mountains, Alajica valley, Tengiz-bai pass, alpine swales, slope toward Darant-Kurgan, 23 June 1931, *S. Lipschitz* 122 (HT: MW; IT: LE)

Poa supina Schrad. ssp. *ustulata* (S.E. Fröhner) Á. Löve & D. Löve, Botaniska Notiser 128(4): 498. 1975[1976]. (Bot. Not.)

Type. In summis alpinis Salisburgensibus; *Mielichhofer s.n.*

Distribution. Himachal Pradesh, Jammu and Kashmir, Uttar Pradesh, Uttarakhand [Afghanistan, China, Nepal, Pakistan].

Habit. Perennial.

Remarks. Records for Himachal Pradesh and Jammu and Kashmir fide Naithani (1990). Nautiyal and Gaur (2017) document specimen for Uttarakhand.

529. *Poa szechuensis* Rendle, J. Bot. 46: 173. 1908 var. *szechuensis*

Poa gracillima Rendle, Journal of the Linnean Society, Botany 36(254): 424–425. 1904, nom. illeg. hom., non Vasey 1893. Type: China; Sichuan, Emei Shan, *Faber* 1185 (HT: K000789505)

Poa tibeticola Bor, Kew Bull. 1948: 139. 1948. Type: China: Tibet, Khambajong; September 7, 1903; *F.E. Younghusband s.n.* (K000789482).

Poa chumbiensis Noltie, Edinburgh Journal of Botany 57(2): 282, f. 11–L. 2000. Type: China: Xizang: Chumbi Valley, Yatung, 10000 ft, 18 April 1945, *Bor & Kirat Ram* 20148 (K)

Distribution. Sikkim, Uttarakhand [Bhutan, China, Nepal].

Habit. Annual.

Remarks. Records from Bor (1960) and Zhu et al. (2006).

530. *Poa szechuensis* Rendle var. *rossbergiana* (K.S. Hao) Soreng & G.H. Zhu, Fl. China 22: 295. 2006

Poa rossbergiana K. S. Hao, Bot. Jahrb. Syst. 68(5): 581. 1938. Type: China; Qinghai, in der Nähe des Klosters Ta-schiu-sze, 4200 m, im Ja-he-mari-Gebirge, westlich von Tsi-gi-gan-ba, 9 Sep 1930, *K.S. Hao 1197* (IT: NAS)

Poa rohmooana Noltie, Edinburgh Journal of Botany 57(2): 281–282, f. 1E–H. 2000. (Edinburgh J. Bot.). Type: Sikkim: Chugya, 15000 ft, 12 Nov. 1912, *Rohmoo Lepcha 284* (HT: E)

Distribution. Sikkim [China].

Habit. Annual.

531. *Poa trivialis* L., Sp. Pl. 1: 67. 1753 ssp. *trivialis*

Type. “Habitat in Europae pascuis.” Neotype: *Hudson 16, Herb. Linn. No. 87.9* (LINN). Neotype designated by Soreng in Cafferty et al. (ed.), *Taxon* 49: 256. 2000.

Distribution. Himachal Pradesh, Jammu and Kashmir, Tamil Nadu [Afghanistan, Bhutan, China, Pakistan].

Habit. Perennial.

Remarks. All records for India fide Naithani (1990).

532. *Poa trivialis* L. var. *glabra* Döll, Rhein. Fl. 92. 1843.

Type. Not found.

Distribution. Jammu and Kashmir.

Habit. Perennial.

Remarks. Record in India fide Naithani (1990). Taxonomic editor Soreng notes that Bor (1952, 1960) recognized this species, and Tzvelev (1983) says it is sometimes recognized. It has smoother sheaths than the typical variety.

533. *Poa wardiana* Bor, Kew Bull. 1948: 143. 1948

Type. India: Assam, Balipara Frontier Tract, Poshing La, 10000–12000 ft.; July 21, 1938; *F. Kingdon-Ward 13990* (K000789597, ex DD).

Distribution. Arunachal Pradesh, Assam [China].

Habit. Perennial.

Remarks. Record for India fide Naithani (1990).

***Polypogon* Desf., Fl. Atlant. 1: 66. 1798 (“1800”)**

Type. *Polypogon monspeliensis* (L.) Desf. (as “monspeliense”) (*Alopecurus monspeliensis* L.).

534. *Polypogon fugax* Nees, Syn. Pl. Glumac. (Steudel) 1: 184. 1854

Polypogon higegaweri Steud., Syn. Pl. Glumac. 1: 422. 1854. Type: Japonica

Polypogon littoralis Sm. var. *higegaweri* (Steud.) Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 246. 1896

Type. Nepal.

Distribution. Arunachal Pradesh, Assam, Bihar, Himachal Pradesh, Jammu and Kashmir, Manipur, Meghalaya, Nagaland, Punjab, Tamil Nadu, Uttar Pradesh, Uttarakhand [Afghanistan, Bhutan, China, Myanmar, Nepal, Pakistan].

Habit. Annual.

535. *Polypogon monspeliensis* (L.) Desf., Fl. Atlant. 1: 67. 1798 var. *monspeliensis*

Alopecurus monspeliensis L., Sp. Pl. 1: 61. 1753. Type: “Habitat Monspelii.” Lectotype: Herb. Linn. No. 82.6 (LINN). LT designated by Scholz in Cafferty et al. (ed.), Taxon 49: 245. 2000.

Phleum monspeliense (L.) Koeler, Descr. Gram. (Koeler) 57. 1802

Santia monspeliensis (L.) Parl., Fl. Palerm. 1: 73. 1845

Agrostis alopecuroides Lam., Tabl. Encycl. 1: 160. 1791. Type: “Ex Gallia & Europa australi.”

Phleum crinitum Schreb., Besch. Graes. 1: 151. 1768

Polypogon flavescens J. Presl in C. Presl, Reliq. Haenk. 1(4–5): 234. 1830. Type: “Habitat in Peruvia.” Peru; *Haenke s.n.* (PR)

Distribution. Assam, Bihar, Chhattisgarh, Delhi, Gujarat, Himachal Pradesh, Jammu and Kashmir, Jharkhand, Karnataka, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Nagaland, Rajasthan, Tamil Nadu, Uttar Pradesh, Uttarakhand, West Bengal [China, Pakistan, Sri Lanka].

Habit. Annual.

536. *Polypogon monspeliensis* (L.) Desf. var. *indicus* Bhattacharya & S.K. Jain, Bull. Bot. Surv. India 25(1–4): 208. f. 1. 1985 (“1983”)

Type. India: Punjab, Ferozepore; *S.l. s.n.* (CAL).

Distribution. Assam, Bihar, Delhi, Himachal Pradesh, Jammu and Kashmir, Karnataka, Madhya Pradesh, Maharashtra, Nagaland, Punjab, Rajasthan, Tamil Nadu, Uttar Pradesh, West Bengal [Afghanistan, Sri Lanka].

Habit. Annual.

Remarks. Record for Punjab fide Naithani (1990).

537. *Polypogon nilgiricus* Kabeer & V.J. Nair, Nord. J. Bot. 25(1–2): 9, fig. 1. 2008

Type. India: Tamil Nadu, Nilgiri Hills, Manjakambai, alt. 3000 ft.; March 3, 2004; *K. Althaf Ahmed Kabeer 117749* (CAL).

Distribution. Tamil Nadu.

Habit. Perennial.

538. *Polypogon viridis* (Gouan) Breistr., Bull. Soc. Bot. France 110 (Sess. Extraord. 89): 56. 1966 (“1963”)

Agrostis viridis Gouan, Hortus Monsp. 546. 1762. Type: France “Habitat au mont Saint Loup. Cum agrost. Ventricosa Altitudo prioris.” (P).

Agrostis semiverticillata (Forssk.) C. Chr., Dansk Bot. Ark. 4(3): 12. 1922

Phalaris semiverticillata Forssk., Fl. Aegypt.-Arab. 17. 1775. Type: “Rofettae & Kahirae frequens, Aprile ineunre florens, Naaejm.” Egypt: Rosetta and Cairo; April, 1762; *Forsskal 63* (C).

Agrostis verticillata Vill., Prosp. Hist. Pl. Dauphiné (Villars) 16. 1779. Type: France.

Polypogon littoralis Sm. var. *muticus* Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 246. 1896. Type: India: Kunawur; *Thomson s.n.*

Distribution. Uttar Pradesh [Pakistan].

Habit. Perennial.

***Puccinellia* Parl., Fl. Ital. 1: 366. 1848, nom. cons.**

Type. *Puccinellia distans* (Jacq.) Parl. (*Poa distans* Jacq.) (type cons.).

For additional information see Liu et al. (2006) and Dickoré (1995). Dickoré notes several poorly known taxa from Karakorum that are not mentioned here.

539. *Puccinellia distans* (Jacq.) Parl., Fl. Ital. (Parlatore) 1: 367. 1848

Poa distans Jacq., Observ. Bot. (Jacquin) 1: 42. 1764, Type: “Habitat in Austria. D. Jacquin.” Lectotype: Austria. “*Poa distans. triandra digyn. Crescit in fossis aquosis*

et locis humidis per Austriam.” *Herb. Jacquin fil.* (W). LT designated by Cope in Cafferty et al. (ed.), *Taxon* 49: 255. 2000.

Atropis distans (Jacq.) Griseb., *Fl. Ross. [Ledebour]* 4: 388. 1852

Glyceria distans (Jacq.) Wahlenb., *Fl. Upsal.* 36. 1820

Distribution. Jammu and Kashmir [China, Pakistan].

Habit. Perennial.

540. *Puccinellia glauca* (Regel) V.I. Krecz., *Flora URSS* 2: 484, pl. 36, f. 19. 1934

Atropis distans var. *glauca* Regel, *Trudy Imperatorskago S.-Peterburgskago Botaničeskago Sada* 7(2): 623. 1881. (Trudy Imp. S.-Peterburgsk. Bot. Sada). Type: *P. Fedchenko s.n.*,

29 May 1869, Environs of Kalta-Kurgon, along the irrigation channel Narupai (LE)

Puccinellia distans Parl. ssp. *glauca* (Regel) Tzvelev, *Zlaki SSSR* 507. 1976

Distribution. Jammu and Kashmir [Afghanistan, China, Pakistan].

Habit. Perennial.

541. *Puccinellia himalaica* Tzvelev, *Bot. Mater. Gerb. Bot. Inst. Komarova Akad. Nauk S.S.S.R.* 17: 66. 1955

Type. India: Kashmir, Soo Morari Peldo, Rupshu, alt. 12800 ft.; July 8, 1931; *W. Koeltz* 2216 (LE).

Distribution. Himachal Pradesh, Jammu and Kashmir [Afghanistan, China, Pakistan].

Habit. Perennial.

Remarks. Records for India fide Naithani (1990).

542. *Puccinellia ladakhensis* (H. Hartmann) Dickoré, *Stapfia* 39: 182. 1995

Poa ladakhensis H. Hartmann, *Candollea* 39(2): 510. f. 1. 1984. Type: India: Kashmir, Stokphu, alt. 14500 ft.; *H. Hartmann* 2614 (G).

Distribution. Jammu and Kashmir.

Habit. Perennial.

543. *Puccinellia minuta* Bor, Nytt Mag. Bot., Oslo 1: 19, f. 8. 1952.

Puccinellia kashmiriana Bor, Kew Bull. 1953: 270–271. 1953. Type: India: Kashmir, Kamri Valley, near Kalapani, alt. 11200–12000 ft.; August 25, 1893; *J.F. Duthie 12543* (K).

Type. Pakistan: Chitral distr.: Barum Gol, S. Barum Glacier, ca. 4500 m, 27 July 1950, *P. Wendelbo s.n.* (K).

Distribution. Himachal Pradesh, Jammu and Kashmir [Afghanistan, China, Pakistan].

Habit. Perennial.

Remarks. Records for India fide Naithani (1990). Taxonomic editor Soreng notes that Dickoré (1995) recognized *P. minuta* with *P. kashmiriana* Bor as a synonym, a structure that we follow here. Liu et al. (2006) recognize *P. minuta* but do not mention *P. kashmiriana*.

544. *Puccinellia stapfiana* R.R. Stewart, Brittonia 5(4): 418. 1945

Glyceria pooides Stapf, Fl. Brit. India (J.D. Hooker). 7(22): 348. 1896 (as “poeoides”), non *Puccinellia pooides* Keng, 1938. Type: China: Xizang, Rupchu, grassy plains at the head of Salt Lake; *T. Thomson s.n.*, non *Puccinellia pooides* Keng, 1938

Distribution. Jammu and Kashmir [China, Pakistan].

Habit. Perennial.

545. *Puccinellia tenuiflora* (Griseb.) Scribn. & Merr., Contr. U.S. Natl. Herb. 13: 78. 1910

Atropis tenuiflora Griseb., Fl. Ross. [Ledebour] 4(13): 389. 1852. Type: Russia: Siberia, Transbaical; *Turczaninov s.n.* (LE).

Distribution. India (West Himalaya) [China, Pakistan].

Habit. Perennial.

Remarks. States in India not recorded. Taxonomic editor Soreng notes that Liu et al. (2006) include Iran but not Pakistan in the distribution of this species.

546. *Puccinellia thomsonii* (Stapf) R.R. Stewart, Brittonia 5(4): 418. 1945 (as “thomsoni”)

Glyceria thomsonii Stapf, Fl. Brit. India (J.D. Hooker). 7(22): 347. 1896. Type: China: Xizang, Rupchu above Pugha, alt. 15500 ft.; *T. Thomson s.n.*

Atropis thomsonii (Stapf) Pamp., Fl. Caracorum 77. 1930

Distribution. Jammu and Kashmir [China, Pakistan].

Habit. Perennial.

***Rostraria* Trin., Fund. Agrost. (Trinius) 149. 1820**

Lectotype. *Rostraria pubescens* Trin., nom. illeg. (*Bromus dactyloides* Roth) (designated by Pfeiffer, Nomenclat. Bot. 2: 991. 1874).

547. *Rostraria clarkeana* (Domin) Holub, Folia Geobot. Phytotax. 9(3): 271. 1974

Koeleria clarkeana Domin, Biblioth. Bot. 14(Heft 65): 272. 1907. Type: India: Kashmir, Naosheva; 1876; *C.B. Clarke* 28155 (K).

Lophochloa clarkeana (Domin) Bor, Grasses Burma, Ceylon, India and Pakistan 445. 1960

Distribution. Jammu and Kashmir [Pakistan].

Habit. Annual.

Remarks. Record for Jammu and Kashmir fide Naithani (1990).

548. *Rostraria cristata* (L.) Tzvelev, Novosti Sist. Vyssh. Rast. 7: 47. 1971 (“1970”)

Festuca cristata L., Sp. Pl. 1: 76. 1753. Type: “Habitat in Lusitanae collibus sterilibus.”
Lectotype: *Herb. Linn. No. 92.24* (LINN). LT designated by Sherif & Siddiqi in El-Gadi (ed.), Fl. Libya 145: 167. 1988.

Distribution. Jammu and Kashmir [Pakistan].

Habit. Annual.

549. *Rostraria pumila* (Desf.) Tzvelev, Novosti Sist. Vyssh. Rast. 7: 48. 1971 (“1970”)

Avena pumila Desf., Fl. Atlant. 1: 103. 1798. Lectotype: Morocco; 1806; *Broussonet* 296 (LE). (Vide Henderson & Schäfer, Bot. J. Linn Soc. 141: 130. 2003.)

Lophochloa pumila (Desf.) Bor, Grasses Burma, Ceylon, India and Pakistan 445. 1960.
Type: Pakistan: Rawalpindi; *R.R. Stewart* 23443

Distribution. Rajasthan [Pakistan].

Habit. Perennial.

***Sclerochloa* P. Beauv., Ess. Agrostogr. 97, 177. 1812**

Lectotype. *Sclerochloa dura* (L.) P. Beauv. (*Cynosurus durus* L.). (vide Pfeiffer, Nomenclat. Bot. 2: 1103. 1874).

550. *Sclerochloa dura* (L.) P. Beauv., Ess. Agrostogr. 98, 177. t. 19. f. 4. 1812

Cynosurus durus L., Sp. Pl. 1: 72. 1753. Type: "Habitat in Europa australi." Lectotype = "Gramen arvense, Polypodii panicula crassiore" in Barrelier, Pl. Galliam, 111, t. 50, 1714. LT designated by Stace & Jarvis in Bot. J. Linn. Soc. 91: 438. 1985.

Eleusine dura (L.) Lam., Tabl. Encycl. 1: 203. 1791

Festuca dura (L.) Vill., Hist. Pl. Dauphiné (Villars) 2: 94. 1787

Poa dura (L.) Scop., Fl. Carniol., ed. 2. 1: 70. 1772. Type: "Habitat Tergesti, iuxta vias, in aridis."

Sesleria dura (L.) Kunth, Révis. Gramin. 1: 110. 1829

Distribution. Jammu and Kashmir [China, Pakistan].

Habit. Annual.

***Sibirotrisetum* Barberá, Soreng, Romasch., A. Quintanar, & P.M. Peterson, J. Syst. Evol.: 8. 2019**

Type. *Sibirotrisetum sibiricum* (Rupr.) Barberá.

551. *Sibirotrisetum aeneum* (Hook. f.) Barberá, J. Syst. Evol.: 8. 2019.

Avena aenea Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 279. 1896. Type: Western Himalaya, alt. 11000–12000 ft., from Kashmir to Kumaon.

Trisetum aeneum (Hook. f.) R.R. Stewart, Brittonia 5(4): 431. 1945

Trisetum aureum Nees, Syn. Pl. Glumac. (Steudel) 1: 225. 1854, non Ten., 1820. Type: Nepal; Royle 44

Distribution. Himachal Pradesh, Jammu and Kashmir, Uttar Pradesh, Uttarakhand [Pakistan].

Habit. Perennial.

552. *Sibirotrisetum scitulum* (Chrtek ex Barberá) Barberá, J. Syst. Evol. 2019 (doi: 10.1111/jse.12523): 8.

Trisetum scitulum Bor, Kew Bull. 1956: 212. 1956. Type: India: Sikkim; *J.D. Hooker s.n. Avena flavescens* sensu Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 279. 1896, non L., 1753

Distribution. Uttarakhand, Sikkim [Bhutan, China, Nepal].

Habit. Perennial.

553. *Sibirotrisetum sibiricum* (Rupr.) Barberá subsp. *sibiricum*, J. Syst. Evol. 8. 2019.

Trisetum sibiricum Rupr., Beitr. Pflanzenk. Russ. Reiches 2: 65. 1845

Trisetum sikkimense (Hook. f.) Chrtek, Acta Univ. Carol., Biol. 1966: 92. 1967 [page 1967: 104?]

Avena sikkimensis Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 280. 1896. Type: Sikkim Himalaya, Lachen and Lachoong Valleys, alt. 10000–11000 ft.; *J.D. Hooker s.n.*

Distribution. Sikkim.

Habit. Perennial.

***Trisetaria* Forssk., Fl. Aegypt.-Arab. 27. 1775**

Type. *Trisetaria linearis* Forssk.

554. *Trisetaria loeflingiana* (L.) Paunero, Anales Jard. Bot. Madrid 9: 527. 1950

Avena loeflingiana L., Sp. Pl. 1: 79. 1753. Type: “Habitat in Hispania.” Lectotype: Löfving s.n., Herb. Linn. No. 95.4, upper row of specimens (excl. specimen at bottom left) (LINN). LT designated by Scholz in Cafferty et al. (ed.), Taxon 49: 247. 2000.

Lophochloa cavanillesii (Trin.) Bor, Grasses Burma, Ceylon, India and Pakistan 445. 1960

Trisetaria cavanillesii (Trin.) Maire, Fl. Afrique N. 2: 251. 1953

Trisetum cavanillesii Trin., Mém. Acad. Imp. Sci. St.-Petersbourg, Sér. 6, Sci. Math. 1: 63. 1830 (1831)

Distribution. Northwest India [Pakistan].

Habit. Annual.

Remarks. States in India not recorded. Taxonomic editor Soreng cites unpublished phylogenetic data suggesting that this species may be misplaced in *Trisetaria*.

***Trisetopsis* Röser & A. Wölk, *Schlechtendalia* 25: 57. 2013**

Type. *Trisetopsis elongata* (Hochst. Ex A. Rich.) Röser & A. Wölk (*Danthonia elongata* Hochst. ex A. Rich.).

Notes. Taxonomic editor Soreng notes that *Trisetopsis* Röser & A. Wölk (2013) and *Tzveleviochloa* Röser & A. Wölk (2017) were described to accommodate 28 and 3 species formerly treated as *Helictotrichon*. There is a confusing array of named species along the Himalayan front and extending into the Hengduan Shan of China, for which (in his opinion) there is no adequate taxonomic account. *Helictotrichon schmidtii* and *H. polyneuron* belong to this group, but there is no newer combination or synonymy for these two, although Röser may have placed them in synonymy of others. These are all species with lax leaves unlike *Helictotrichon* s.s. There are no species of *Helictotrichon* s.s. in India. See also discussions in Wölk and Röser (2013, 2014, 2017) and Wölk et al. (2015).

555. *Trisetopsis aspera* (Munro ex Thwaites) Röser & A. Wölk, *Taxon* 66(1): 38. 2017

Avena aspera Munro ex Thwaites, Enum. Pl. Zeyl. 372. 1864. Type: Sri Lanka: Newera

Ellia and Other of the more elevated parts of the Island; *Munro Ceylon Plant* 916

Avenastrum asperum (Munro ex Thwaites) Vierh. var. *polyneuron* (Hook. f.) C.E.C. Fisch., Fl. Madras 3(10): 1803. 1934

Avenastrum asperum (Munro ex Thwaites) Vierh., Verh. Ges. Deutsch. Naturf. 85(2): 672. 1914

Helictotrichon asperum (Munro ex Thwaites) Bor, Indian Forest Rec., Bot. n.s. 1(3): 68. 1938

Avena aspera Munro ex Thwaites var. *roylei* Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 277. 1896. Type: Kashmir to Nepal, alt. 6000–12000 ft.

Avena polyneura Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 277–278. 1896. Type: India: Nilghiri Hills, Dodabetta, alt. 8000 ft.; *Gamble s.n.*

Helictotrichon polyneuron (Hook. f.) Henrard, Blumea 3(3): 425. 1940

Helictotrichon roylei (Hook. f.) Keng, Clav. Gen. Sp. Gram. Prim. Sin. 200. 1957

Distribution. Tamil Nadu.

Habit. Perennial.

Remarks. Note that *Avena polyneura* Hook. f. has never been formally transferred to *Trisetopsis*.

556. *Trisetopsis junghuhnii* (Buse) Röser & A. Wölk, *Taxon* 66(1): 38. 2017

Avena junghuhnii Buse, Pl. Jungh. 345. 1854. Type: Indonesia: Java, Kedu, in planitie montis Dieng, ubi una cum Bromo insigni Buse prope pagum Parre kesit; *Junghuhn s.n.* (L).

Helictotrichon junghuhnii (Buse) Henrard, Blumea 3(3): 425. 1940

Distribution. Assam, Himachal Pradesh, Jammu and Kashmir, Kerala, Meghalaya, Nagaland, Sikkim, Tamil Nadu, Uttar Pradesh [Bhutan, China, Myanmar, Nepal, Pakistan, Sri Lanka].

Habit. Perennial.

557. *Trisetopsis virescens* (Nees) Röser & Wölk, *Taxon* 66(1): 38. 2017

Trisetum virescens Nees, Syn. Pl. Glumac. (Steudel) 1: 226. 1854. Type: India; *Royle Herb. no. 137, 138*

Helictotrichon virescens (Nees) Henrard, Blumea 3(3): 425. 1940

Distribution. Himachal Pradesh, Jammu and Kashmir, Kerala, Tamil Nadu, Uttarakhand [China, Myanmar, Nepal, Pakistan, Sri Lanka].

Habit. Perennial.

***Trisetum* Pers., Syn. Pl. (Persoon) 1: 97. 1805**

Lectotype. *Avena flavescens* L. LT designated by Hitchcock, U.S.D.A. Bull. 772: 108. 1920.

Notes. Generic limits in *Koeleria*, *Trisetum* and related genera have been the subject of much recent work. See Barberá et al. (2017a, 2017b, 2018, 2019a, 2019b) and Peterson et al. (2019).

558. *Trisetum flavescens* (L.) P. Beauv., Ess. Agrostogr. 88, 153, 180. 1812

Avena flavescens L., Sp. Pl. 1: 80. 1753. Type: “Habitat in Germania, Anglia, Gallia.” Lectotype: Herb. A. van Royen No. 913.7–458 (L). LT designated by Cope in Cafferty et al. (ed.), *Taxon* 49: 247. 2000.

Trisetaria flavescens (L.) Baumg., Enum. Stirp. Transsilv. 3: 263. 1816

Rebentischia flavescens (L.) Opiz, Lotos 4: 104. 1854, nom. inval. pro syn. of *Trisetum flavescens* (L.) P. Beauv., 1812

Trisetum pratense Pers., Syn. Pl. (Persoon) 1: 97. 1805, nom. superfl. & illeg. for *Avena flavescens*

Distribution. Meghalaya, Sikkim [also in Europe, North America, South America]. Widespread and native in Eurasia, but not in China.

Habit. Perennial.

559. *Trisetum spicatum* (L.) Richt. ssp. *mongolicum* Hultén ex Veldkamp, Gard. Bull. Singapore 36(1): 135. 1983

Trisetum mongolicum (Hultén ex Veldkamp) Peshkova, Fl. Centr. Sibir. 1: 97. 1979

Type. China: Xizang: Kuenlun, Ulan Bulak, 5 July 1894, *Roborovsky s.n.* (HT: S).

Distribution. Sikkim [Bhutan, China].

Habit. Perennial.

***Tzveleviochloa* Röser & A. Wölk, Taxon 66(1): 38. 2017.**

Type. *Tzveleviochloa parviflora* (Hook. f.) Röser & A. Wölk, Taxon 66(1): 38. 2017. (*Avena aspera* Munro ex Thwaites var. *parviflora* Hook. f.).

Notes. See comments under *Trisetopsis*, and also discussions in Wölk and Röser (2013, 2014, 2015, 2017).

560. *Tzveleviochloa parviflora* (Hook. f.) Röser & A. Wölk, Taxon 66(1): 38. 2017

Avena aspera Munro ex Thwaites var. *parviflora* Hook. f., Fl. Brit. India (J.D. Hooker).

7(22): 277. 1896. Type: India: Sikkim, Singalela, alt. 11000 ft.; *C.B. Clarke s.n.*

Helictotrichon parviflorum (Hook. f.) Bor, Kew Bull. 1951: 445. 1952

Distribution. Sikkim.

Habit. Perennial.

561. *Tzveleviochloa schmidii* (Hook. f.) E. A. Kellogg, comb. nov.

urn:lsid:ipni.org:names:77212057-1

Helictotrichon schmidii (Hook. f.) Henrard, Blumea 3(3): 427. 1940

Avena aspera Munro ex Thwaites var. *schmidii* Hook. f., Fl. Brit. India (J.D. Hooker).

7(22): 277. 1896. Syntypes: India: Nilghiri Hills; *Schmid s.n.* Ootacamund, alt. 7500–8000 ft.; *C.B. Clarke s.n.*

Avenastrum asperum (Munro ex Thwaites) Vierh. var. *schmidii* (Hook. f.) C.E.C. Fisch., Fl. Madras 3(10): 1802. 1934

Distribution. Tamil Nadu [China].

Habit. Perennial.

Remarks. Taxonomic editor Soreng suggests placing *Helictotrichon schmidii* (Hook. f.) Henrard in *Tzveleviochloa* so the combination is made here.

Subfamily Aristidoideae Caro, 1982

Annuals or perennials, generally with slender leaves. The spikelets have one flower subtended by glumes that are generally longer than the flower, and may be cylindrical or laterally compressed. Lemmas are terete and generally leathery, bearing three awns; the latter condition is synapomorphic for the subfamily. Awns may be free or fused.

While plants in Aristidoideae appear similar to Stipeae, many morphological characters keep them out of the Pooideae (e.g., presence of microhairs, lack of an epiblast in the embryo, C_4 photosynthesis in two of the genera (Kellogg 2015b; Kellogg and Campbell 1987)). Molecular data place the subfamily firmly in the PACMAD clade (Barker et al. 1995; Clark et al. 1995; Grass Phylogeny Working Group 2001; Grass Phylogeny Working Group II 2012). The position of the subfamily within PACMAD is unclear. While GPWG II (Grass Phylogeny Working Group II 2012) placed it sister to all the remaining PACMAD subfamilies (i.e. PCMAD), Cotton et al. (2015) place it sister to the clade comprised of Chloridoideae+Danthonioideae+Arundinoideae+Micrairoideae. Teisher et al. (2017) and Saarela et al. (2018) find that placement of the clade is ambiguous, with nearly equal support for placement sister to PCMAD, sister to CMAD, or sister to Panicoideae.

The three genera of Aristidoideae are each monophyletic, with *Sartidia* sister to *Stipagrostis* and *Aristida* sister to the two together (Cerro Tlatilpa et al. 2011).

Aristida L., Sp. Pl. 1: 82. 1753

Type. *Aristida adscensionis* L.

562. *Aristida adscensionis* L., Sp. Pl. 1: 82. 1753

Aristida divaricata J. Jacq., Ecl. Gram. Rar. 7. t. 6. 1813

Chaetaria adscensionis (L.) P. Beauv., Ess. Agrostogr. 151, 158. 1812 (as “ascensionis”)

Aristida adscensionis L. var. *pumila* (Decne.) Coss. & Durieu, Expl. Sci. Algerie 84. 1855

Aristida pumila Decne. Ann. Sci. Nat., Bot. Ser. 2, 4: 85. 1835. Type: “Hab. l’Hedjas” (P).

Aristida bromoides Kunth, Nov. Gen. Sp. [H.B.K.] 1: 122 (ed. qto.). 1816. Type: “Crescit in montanis regni Quitensis, Juxta Tambo de Guamote et Lianos de Tio-

- caxas, alt. 1600 hexap." Ecuador: Chimborazo, Guamote; *Humboldt & Bonpland* 3020 (P).
- Chaetaria bromoides* (Kunth) Roem. & Schult., Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 396. 1817
- Aristida canariensis* Willd., Enum. Pl. (Willdenow) 1: 99. 1809. Type: "Habitat in Canariis." Canary Islands: Habitat in Teneriffe; *Broussonet s.n.*
- Aristida coarctata* Kunth, Nov. Gen. Sp. [H.B.K.] 1: 122 (ed. qto.). 1816. Type: "Crescit in alto planitie Mexicana, inter Burras et Guanaxuato, alt. 1060 hexap." Lectotype: Mexico: Guannajuato, between Burras and Guanaxuato; *Humboldt & Bonpland s.n.* (P-Bonpl. (left-hand plant). LT designated by Hitchcock in Contr. U.S. Natl. Herb. 22: 542. 1924.
- Aristida curvata* Nees ex A. Rich. var. *abyssinica* A. Rich., Tent. Fl. Abyss. 2: 392. 1850–1851. Type: "Crescit in montibus prope Tchelatshranne et in provincial Chire mense October (Schimper)."
- Aristida debilis* Mez, Repert. Spec. Nov. Regni Veg. 17: 151. 1921. Lectotype: Jamaica; *Macnab s.n.* (B; ILT: US-81060 (fragm. ex B)). LT designated by Hitchcock in Contr. U.S. Natl. Herb. 22: 543. 1924.
- Aristida depressa* Retz., Observ. Bot. (Retzius) 4: 22. 1786–1787. Type: "Habitantem invenit honor, Koenig in fterilioribus Malabaricae cum priori." India, Malabaricae; *Koenig s.n.* (S).
- Aristida fasciculata* Torr., Ann. Lyceum Nat. Hist. New York 1(1): 154–155. 1824. Type: "Habitat in the forests of the Canadian river." USA: New Mexico, in forests of the Canadian river; 1819–1820; *James s.n.* (NY).
- Chaetaria fasciculata* (Torr.) Schult. & Schult. f., Mant. 3 (Schultes & Schultes f.) Add. I 578. 1827
- Aristida grisebachiana* E. Fourn., Mexic. Pl. 2: 78. 1886. Lectotype: Mexico: Veracruz, Mirador; *Schaffner 175 (pl. ed. Hohen. 175) pro parte* (P). LT designated by Hitchcock in Contr. U.S. Natl. Herb. 22: 543. 1924.
- Aristida heymannii* Regel, Trudy Imp. S.-Peterburgsk. Bot. Sada 7: 649. 1881 (as "hey-manni"). Type: "In valle fluvii Iii in angustiis Koibin."
- Aristida interrupta* Cav., Icon. (Cavanilles) 5(1): 45. t. 471. f. 2. 1799. Type: "Habitat prope oppidum Chalma, Regni mexicani. Floret Augusto. Vidi siccam in laudato herbario."
- Aristida maritima* Steud., Syn. Pl. Glumac. 1: 137. 1854. Type: Guadeloupe: sabulosis aridis maritimis; 1852; *E.P. de F. Duchassaing s.n.* (P).
- Aristida mauritiana* Hochst. ex A. Rich., Tent. Fl. Abyss. 2: 392. 1850–1851. Type: "Crescit ad pagum Aitet, in provincial Medat, mense Martio (Schimper)." Lectotype: Mauritius: *Anonymous s.n.* [Insula franciae ex Museo Paris 1820] (B). LT designated by Henrard in Meded. Rijks-Herb. 54(A): 338. 1927.
- Aristida modatica* Steud., Syn. Pl. Glumac. 1: 139. 1854. Type: Provincia Modat Abyss.; *Hochstetter herb. Abyss. un. it. nr. 1047*
- Aristida vulgaris* Trin. & Rupr. var. *mongholica* Trin. & Rupr., Sp. Gram. Stipac. 133. 1842. Type: "In arenosis et plnitibus deserti totius Mongholiae mediae."

Aristida nana (Trin. & Rupr.) Steud., Syn. Pl. Glumac. 1: 137. 1854

Aristida dispersa Trin. & Rupr. var. *nana* Trin. & Rupr., Sp. Gram. Stipac. 129. 1842. Type: Chile: Valparaiso, in declivibus apricis collum Quillota; September, 1829; C.G. Bertero 994 (LE). LT designated by Hitchcock in Contr. U.S. Natl. Herb. 22: 542. 1924.

Aristida nigrescens J. Presl in C. Presl, Reliq. Haenk. 1(4–5): 223. 1830. Type: “Hab. in Mexico” Mexico; 1836; *Haenke s.n.* (PR).

Aristida schaffneri E. Fourn., Mexic. Pl. 2: 78. 1886. Lectotype: Mexico: Veracruz, Orizaba; J.G. Schaffner 181(P). LT designated by Hitchcock in Contr. U.S. Natl. Herb. 22: 543. 1924.

Aristida teneriffae Steud., Syn. Pl. Glumac. 1: 420. 1854. Type: Canary Islands: Teneriffe; Boivin 222.

Aristida vulgaris Trin. & Rupr., Sp. Gram. Stipac. 131. 1842. Type: Canary Islands, Teneriffe; Broussonet s.n. (B-W).

Lectotype. *Herb. Linn. No. 98.1* (LINN). LT designated by Hitchcock in Contr. U.S. Natl. Herb. 22: 541. 1924.

Distribution. Andhra Pradesh, Bihar, Daman and Diu, Goa, Gujarat, Karnataka, Kerala, Maharashtra, Madhya Pradesh, Odisha, Rajasthan, Tamil Nadu, Uttar Pradesh, Uttarakhand [Pantropical, nearly worldwide in tropic, subtropic and warm temperate regions].

Habit. Annual.

563. *Aristida cumingiana* Trin. & Rupr., Sp. Gram. Stipac. 141. 1842

Aristida delicatula Hochst. ex A. Rich., Tent. Fl. Abyss. 2: 393. 1850–1851. Syntypes: “Crescit in locis arenosis et graminosis prope Kouaieta, in provincial Chire (Quartin Dillon et Schimper).” Ethiopia; *Quartin Dillon s.n.* (P). Ethiopia: Schire; October 16, 1840; *Schimper 1830* (P).

Aristida trichodes (Nees ex Lindl.) Walpers, Ann. Bot. (Oxford) 3: 753. 1853

Chaetaria trichodes Nees ex Lindl., Hooker’s J. Bot. Kew Gard. Misc. 2: 101. 1850. Type: Insulae Philippinae; *H. Cuming 671* (B).

Aristida capillacea sensu Cav., Icon. (Cavanilles) 5(1): 43. t. 468. f. 1. 1799, non Lam., 1791.

Type. Philippine Islands: Luzon; *H. Cuming 671* (LE).

Distribution. Bihar, Chhattisgarh, Jharkhand, Madhya Pradesh, Odisha, West Bengal [China, Myanmar, Nepal].

Habit. Annual.

564. *Aristida cyanantha* Nees ex Steud., Syn. Pl. Glumac. 1: 141. 1854

Type. Nepal; *Royle 64* (LE).

Distribution. Jammu and Kashmir, Punjab, Madhya Pradesh, Uttar Pradesh, Uttarakhand [Afghanistan, Nepal, Pakistan].

Habit. Perennial.

565. *Aristida funiculata* Trin. & Rupr., Sp. Gram. Stipac. 159. 1842.

Aristida funiculata Trin. & Rupr. var. *mallica* (Edgew.) Henrard, Mon. Aristida 90. 1929

Aristida mallica Edgew., J. Proc. Linn. Soc., Bot. 6: 209. 1862. Type: Multan, not cited.

Aristida funiculata Trin. & Rupr. var. *royleana* (Trin. & Rupr.) Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 227. 1896

Aristida royleana Trin. & Rupr., Sp. Gram. Stipac. 160. 1842. Type: India orientalis; 1836; *Royle s.n.* [Royle herb. Ind. Mont. (Nees herb.)] (LE-TRIN-1341.01).

Aristida macrathera A. Rich., Tent. Fl. Abyss. 2: 393. 1850–1851. Type: “Crescit in locis arenosis provinciae montosae Chire, mense Octobre (Quartin Dillon).” Ethiopia: Schire; *Quartin Dillon s.n.* (P).

Aristida kotschy Hochst. ex Steud., Syn. Pl. Glumac. 1: 142. 1854, pro. syn. nom. nud. Type: Sudan: Kordofan, Abu-Gerad; September 21, 1839; *Kotschy 31*(WAG).

Aristida stipacea Ehrenb. & Hempr. ex Trin. & Rupr., Sp. Gram. Stipac. 159. 1842, nom. nud., cited as synonym of *Aristida funiculata*

Aristida funicularis Trin. ex Steud., Nomencl. Bot., ed. 2 (Steudel) 1: 131. 1840, nom. nud.

Syntypes. Africa: Senegal, in sabulosis prope Walo; *Leprieur s.n.* Sudan: ad pagum Cordofanum Abu-Gerard locis demissis arenosis siccis; *Kotschy 34* (LE). Sudan: in planitie arenosa Accabae; *Kotschy 98* (LE). Arabia: prope Gidon; *Ehrenberg s.n.* (LE).

Distribution. Andhra Pradesh, Bihar, Daman and Diu, Goa, Gujarat, Karnataka, Maharashtra, Madhya Pradesh, Odisha, Punjab, Rajasthan, Tamil Nadu, Uttar Pradesh [Myanmar, Pakistan].

Habit. Annual.

566. *Aristida hystricula* Edgew., J. Proc. Linn. Soc., Bot. 6: 208. 1862

Type. India: Sindh and Multan; *Stocks 187*, p.p.

Distribution. Gujarat, Punjab, Rajasthan [Pakistan].

Habit. Annual.

567. *Aristida hystrix* L.f., Suppl. Pl. 113. 1782 (“1781”)

Chaetaria hystrix (L.f.) P. Beauv., Ess. Agrostogr. 152, 158. 1812

Aristida rigescens Roem. & Schult., Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 400. 1817. Type: India Orientalis; *Heyne s.n.*

Aristida rigida Roth, Nov. Pl. Sp. 42. 1821, non Cav., 1799. Type: “In collectione veneratiss, Benjamin Heyne innominata aderat.”

Type. “Habitat in Malabaria”; *Koenig s.n.*

Distribution. Andhra Pradesh, Bihar, Daman and Diu, Goa, Gujarat, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Rajasthan, Tamil Nadu [Myanmar, Sri Lanka].

Habit. Perennial.

568. *Aristida mutabilis* Trin. & Rupr., Sp. Gram. Stipac. 150–151. 1842

Aristida articulata Edgew, J. Proc. Linn. Soc., Bot. 6: 209. 1862. Type: “The habit is that of *rigescens* (R.S., Steud. Gr. no. 100, p. 141).”

Aristida longeradiata Steud., Syn. Pl. Glumac. 1: 140. 1854. Type: Senegal; 1830; *Leprieur* 92 (P).

Type. Africa: Sudan, “Cordofan, in arenae saxis graniticis delitescantibus formata”; *Kotschy* 103 (LE).

Distribution. Andhra Pradesh, Himachal Pradesh, Karnataka, Maharashtra, Punjab, Rajasthan, Tamil Nadu [Pakistan].

Habit. Annual.

569. *Aristida redacta* Stapf, Bull. Misc. Inform. Kew 1892: 85–86. 1892

Stipa aristoides Stapf ex Lisboa, J. Bombay Nat. Hist. Soc. 7: 358. 1893. Type: India: Deccan, Burdwan; *Lisboa s.n.*?

Type. India: “Bombay Presidency, Western Ghats, Eastern Chuttanagpur”, Deccan; May 1880; *G.M. Woodrow* 19=124(K (photo, US-1447177)). LT designated by Henrard in Meded. Rijks-Herb. 54(B): 505. 1928.

Distribution. Andhra Pradesh, Bihar, Chhattisgarh, Gujarat, Jharkhand, Karnataka, Maharashtra, Madhya Pradesh, Odisha, Rajasthan, Tamil Nadu, West Bengal.

Habit. Annual.

570. *Aristida setacea* Retz., Observ. Bot. (Retz.) 4: 22. 1786–1787

Chaetaria setacea (Retz.) P. Beauv., Ess. Agrostogr. 152, 158. 1812

Aristida quinqueseta Steud., Syn. Pl. Glumac. 1: 420. 1855. Type: Insula Mauritii; *Boivin s.n.*

Aristida coerulescens sensu Thwaites, Enum. Pl. Zeyl. (Thwaites). 370. 1864, non Desf., 1798

Type. “In aridis sterilioribus Malabaricae cel. Koenig, unde sub nomine aristidae arundinaceae misit.” India: Malabaricae; *Koenig s.n.* (LD).

Distribution. Andhra Pradesh, Bihar, Chhattisgarh, Delhi, Gujarat, Himachal Pradesh, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Rajasthan, Tamil Nadu, Uttar Pradesh, West Bengal [Myanmar, Sri Lanka].

Habit. Perennial.

571. *Aristida stocksii* (Hook. f.) Domin., Biblioth. Bot. 20 (Heft. 85): 338. 1915

Aristida funiculata Trin. & Rupr. var. *stocksii* Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 227. 1896. Type: India: Concan; *J.E. Stocks s.n.* (K).

Distribution. Bihar, Karnataka, Maharashtra.

Habit. Annual.

***Stipagrostis* Nees, Linnaea 7: 290. 1832**

Type. *Stipagrostis capensis* Nees.

572. *Stipagrostis hirtigluma* (Steud. ex Trin. & Rupr.) De Winter, Kirkia 3: 134. 1963

Aristida hirtigluma Steud. ex Trin. & Rupr., Mém. Acad. Imp. Sci. Saint-Pétersbourg, Sér. 6, Sci. Math., Seconde Pt. Sci. Nat. 5: 171. 1842. Type: “In rupibus Wadi Hebran Arabiae petraeae m. April (Schimper Un. it. n. 165).” Lectotype: *Schimper 165* (B). LT designated by Henrard in Meded. Rijks-Herb. 54: 232. 1927.

Distribution. Rajasthan [also in Saudi Arabia, Africa]. Native or naturalized?

Habit. Annual or perennial.

573. *Stipagrostis paradisea* (Edgew.) De Winter, Kirkia 3: 135. 1963

Aristida paradisea Edgew., J. Asiat. Soc. Bengal 16: 1219. 1847. Type: “Aden” Arabia.

Distribution. Rajasthan [also in the Middle East, Africa]. Native or naturalized?

Habit. Perennial.

574. *Stipagrostis plumosa* (L.) Munro ex T. Anderson, J. Linn. Soc., Bot. 5(Suppl.)1: 40. 1860

Aristida plumosa L., Sp. Pl., ed. 2. 2: App. 1666. 1763. Type: “Habitat in America. D. Schreber.” Lectotype: Schreber, Herb. Linn. No. 98.6 (LINN). LT designated by Henrard in Meded. Rijks-Herb. 54A: 451. 1927.

Distribution. Rajasthan [Afghanistan, Pakistan].

Habit. Perennial.

575. *Stipagrostis pogonoptila* (Jaub. & Spach) De Winter, Kirkia 3: 135. 1963

Arthratherum pogonoptilum Jaub. & Spach, Ill. Pl. Orient. 4: 56. 1851. Type: “Pentapotamide (collibus inter Jalalpur et Darapour).” India; April, 1831; *Jacquemont s.n.* (P).

Aristida pogonoptila (Jaub. & Spach) Boiss., Fl. Orient. [Boissier] 5: 496. 1884

Distribution. Haryana, Meghalaya, Punjab, Rajasthan [Pakistan].

Habit. Not reported.

Remarks. Records from Haryana and Punjab fide Naithani (1990).

576. *Stipagrostis pungens* (Desf.) De Winter, Kirkia 3: 135. 1963

Aristida pungens Desf., Fl. Atlant. 1: 109. t. 35. 1798. Type: “Habitat in arenas humidis prope Sfax et in deserto.”

Distribution. India [Africa]. Possibly naturalized; state localities not reported.

Habit. Perennial.

Subfamily Panicoideae A. Braun, 1864

Annuals or perennials, caespitose, rhizomatous, or stoloniferous, often with branched culms. Leaves, inflorescences, and spikelets variable. Lodicules 2, thick, fleshy. *Caryopsis with a punctate hilum*. Embryo with a scutellar cleft and *with the embryonic leaf margins overlapping*.

This large subfamily includes more than a quarter of the species in the family and in its current circumscription encompasses a broad range of variation. Much of this variability is due to the diverse morphology of the tribes Centothecae, Chasmanthieae, and Tristachyideae, which have only recently been included as part of Panicoideae (Morrone et al. 2012; Sánchez-Ken and Clark 2010). In contrast, the core Panicoideae includes Paspaleae, Andropogoneae, and Paniceae; together this group has been recognized since the work of Robert Brown (1810; 1814). Members of the core all have two flowered spikelets which are dorsiventrally compressed. The distal flower is generally bisexual and the proximal one is either staminate or sterile. Disarticulation is below the glumes. All these spikelet characters appear to be synapomorphic for the clade comprising these three large tribes (Kellogg 2015b).

Taxonomic editor: Fernando Zuloaga for all except Andropogoneae

Incertae sedis:

***Dichaetaria* Nees, Syn. Pl. Glumac. (Steudel) 1: 145. 1854**

Type. *Dichaetaria wightii* Nees.

577. *Dichaetaria wightii* Nees, Syn. Pl. Glumac. (Steudel) 1: 145–146. 1854

Gymnopogon wightii (Nees) Koord., Exkurs.-Fl. Java 1: 152. 1911

Gymnopogon rigidus Thwaites, Enum. Pl. Zeyl. (Thwaites). 372. 1864. Type: Sri Lanka: Hotter and drier parts of the Island; *Thwaites Ceylon Plant* 914

Type. India; *Wight Herb. no. 1035*.

Distribution. Kerala, Tamil Nadu [Sri Lanka].

Habit. Perennial.

Tribe Centothecae Ridl., 1907

Plants annual or perennial. Spikelets laterally compressed, with few to many flowers, the reduced flowers either proximal or distal to the fertile ones.

Members of this tribe have no obvious morphological features in common (Kellogg 2015b), but the group is strongly supported as monophyletic in molecular phylogenies (Burke et al. 2016; Grass Phylogeny Working Group II 2012; Sánchez-Ken and Clark 2007).

***Centotheca* Desv., Nouv. Bull. Sci. Soc. Philom. Paris 2: 189. 1810 (“Centosteca”), nom. & orth. cons.**

Type. *Centotheca lappacea* (L.) Desv. (*Cenchrus lappaceus* L.).

578. *Centotheca ganeshaiahiana* M.V. Ramana, Chorghe, Prasanna, & Sanjappa, Nordic J. Bot. 32: 559. 2014.

Type. India, north Andaman Islands Saddle Peak National Park. Open scrub forest (13°9'35.4"N, 93°11'09.3"E), 250–400 m a.s.l., 19 Feb 2011, *M.V. Ramana* 0078 (holotype: CAL, isotypes: BSID, PBL).

Distribution. Andaman and Nicobar Islands.

Habit. Annual.

579. *Centotheca lappacea* (L.) Desv., Nouv. Bull. Sci. Soc. Philom. Paris. 2: 189. 1810 var. *lappacea*

Cenchrus lappaceus L., Sp. Pl., ed. 2. 2: 1488. 1763. Type: “Habitat in India.” Neotype: *Herb. Linn. No. 1212.15* (LINN). LT designated by Monod de Froideville in *Blumea* 19: 59. 1971.

Melica lappacea (L.) Raspail, Ann. Sci. Nat. (Paris) 5: 443. 1825

Uniola lappacea (L.) Trin., Mém. Acad. Imp. Sci. St.-Petersbourg, Sér. 6, Sci. Math. 1(4): 358. 1830

Centotheca latifolia Trin., Fund. Agrost. (Trinius) 141. 1820, nom. superfl. & illeg. for *Cenchrus lappaceus* L.

Centotheca parviflora Andersson, Naturw. Reise Mossambique 560. 1864. Type: “Standort Auf feuchtem, sandigem und morastigem Wiesengrunde in Boror (und am Zambeze) in Marz.”

Festuca blepharophora Roem. & Schult., Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 728. 1817. Type: India orientalis.

Holcus latifolius Osbeck, Dagb. Ostind. Resa 247. 1757. Type: China.

Torresia latifolia (Osbeck) P.Beauv. ex Roem. & Schult., Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 515. 1817.

Melica diandra Roxb., Fl. Ind. (Carey & Wallich ed.) 1: 329. 1820. Type: “A Native of Mountains on the Coromandel Coast.”

Melica refracta Roxb., Fl. Ind. (Carey & Wallich ed.) 1: 329. 1820. Type: “Native of Moluccas and from thence introduced amongst other plants, into the Botanical Garden.”

Poa latifolia G. Forst., Fl. Ins. Austr. 8. 1786. Type: Society Islands; 1773 or 1774; *Forster s.n.*

Torresia biflora Roem. & Schult., Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 515. 1817, nom. nud., pro syn. as "Torresiam biflorum".

Panicum festuciforme Hochst. ex Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 332. 1896, nom. nud.

Festuca ciliaris Heyne ex Roem. & Schult., Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 728. 1817, nom. nud., pro. syn.

Festuca latifolia Roth, Nov. Pl. Sp. 75. 1821, non DC., 1813

Distribution. Andaman and Nicobar Islands, Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Goa, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Nagaland, Odisha, Punjab, Rajasthan, Sikkim, Tamil Nadu, Tripura, Uttar Pradesh, West Bengal [Bhutan, China, Myanmar, Nepal, Sri Lanka].

Habit. Perennial.

580. *Centotheca lappacea* (L.) Desv. var. *longilamina* (Ohwi) Bor, Grasses Burma, Ceylon, India & Pakistan 459. 1960

Centotheca longilamina Ohwi, Bull. Tokyo Sci. Mus. 18: 10. 1947. Type: Indonesia: Java, Pasir Kiara Djongkang in Res. Batavia; June 8, 1924; *Bakhuizen van der Brink* 3312 (BO).

Distribution. Andaman and Nicobar Islands (Naithani), Assam, Goa, Kerala, Maharashtra, Manipur, Meghalaya, Rajasthan, Sikkim, Tamil Nadu, West Bengal [China, Myanmar, Sri Lanka].

Habit. Perennial.

Remarks. Record from Andaman and Nicobar Islands fide Naithani (1990). Reports from Andhra Pradesh and Karnataka are erroneous.

***Thysanolaena* Nees, Edinburgh New. Philos. J. 18: 180. 1835**

Type. *Thysanolaena agrostis* Nees, nom. illeg. (*Agrostis maxima* Roxb., *Thysanolaena maxima* (Roxb.) Kuntze).

581. *Thysanolaena latifolia* (Roxb. ex Hornem.) Honda, J. Fac. Sci. Univ. Tokyo, Sect. 3, Bot. 3: 312. 1930

Melica latifolia Roxb. ex Hornem., Suppl. Hort. Bot. Hafn. 117. 1819. Type: Habitat in Ind, orient. C. intr. 1818. Neotype: J.O. Voigt - s.n. (C/BC:C-10017246) [vide tropicos].

- Agrostis maxima* Roxb., Fl. Ind. (Carey & Wallich ed.) 1: 319. 1820. Type: A native of hedges, amongst the Mountains India, 1900–4000 ft.; *W. Roxburgh s.n.*
- Thysanolaena maxima* (Roxb. ex Hornem) Kuntze, Revis. Gen. Pl. 2: 794. 1891.
- Melica latifolia* Roxb. ex Hornem, Suppl. Hort. Bot. Hafn. 117. 1819; Roxb., Fl. Ind. (Carey & Wallich ed.) 1: 330. 1820. Type: “A native of the Garrow Hills, from thence it was brought to the Botanic Garden, by Mr. Robert Kyd.”
- Myriachaeta glauca* Moritzi ex Steud., Syn. Pl. Glumac. 1: 404. 1854. Type: Malaysia: Ins. Sümbaura; *Hrbo. Zolling. Nr. 1769.*
- Panicum acariferum* Trin., Sp. Gram. [Trinius] 1: t. 87. 1827.
- Thysanolaena assamensis* Gdger., Bull. Soc. Bot. France 66: 303. 1919. Type: Assam, Lashai Lungleh; *Gage 281.*
- Thysanolaena birmanica* Gdger., Bull. Soc. Bot. France 66: 303. 1919. Type: Birmania, ad Makhaye; *King 73.*
- Thysanolaena sikkimensis* Gdger., Bull. Soc. Bot. France 66: 303. 1919. Type: Himalaya: Sikkim, Labdah; *Prian s.n., Ribu s.n.*
- Thysanolaena agrostis* Nees, Edinburgh New Philos. J. 18: 180. 1835, nom. superfl. & illeg. for *Agrostis maxima* Roxb.
- Myriachaeta arundinacea* Zoll. & Moritz, Syst. Verz. (Moritzi et al.) 101. 1846, nom. superfl. & illeg. for *Myriachaeta glauca* Moritzi ex Steud.

Distribution. Andaman and Nicobar Islands, Arunachal Pradesh, Assam, Bihar, Himachal Pradesh, Jammu and Kashmir, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Mizoram, Nagaland, Odisha, Punjab, Tamil Nadu, Tripura, Uttarakhand, West Bengal [Bangladesh, Bhutan, China, Myanmar, Nepal, Sri Lanka].

Habit. Perennial.

Tribe Chasmanthieae W.V. Br. & B.N. Smith ex Sánchez-Ken & L.G. Clark, 2010

Plants perennial, caespitose, rhizomatous or stoloniferous. Leaf blades broad, pseudopetiolate in some species. Spikelets laterally compressed, with one to many flowers. Stamens 1, 2, or 3.

Members of this tribe share no obvious morphological characters (Kellogg 2015b) but are supported as forming a clade in molecular phylogenies (Burke et al. 2016; Sánchez-Ken and Clark 2007; 2010).

Lophatherum Brongn., Voy. Monde, Phan. 49. 1831 (“1829”)

Type. *Lophatherum gracile* Brongn.

582. *Lophatherum gracile* Brongn., Voy. Monde, Phan. 2(2): 50, t. 8. 1831 var. *gracile*

Acroelytrum japonicum Steud., Flora 29: 21. 1846. Type: “Ab omnibus Bambusaceis valvulis aristatis differt.”

Allelothea urvillei Steud., Syn. Pl. Glumac. 1: 117. 1854. Type: “Ex herbario Urville sine addito loco natali. An. N. Holl.”

Lophatherum annulatum Franch. & Sav., Enum. Pl. Jap. 2: 605. 1879. Type: not given

Lophatherum dubium Steud., Syn. Pl. Glumac. 1: 300. 1854. Type: India; *Wight Herb. no. 1090*

Lophatherum geminatum Baker, J. Linn. Soc., Bot. 20: 300. 1883. Type: Central Madagascar; *Baron 1061* (K).

Lophatherum gracile Brongn. var. *zeylanicum* (Hook. f.) Bor, Grasses Burma, Ceylon, India ad Pakistan 460. 1960

Lophatherum zeylanicum Hook. f. in Trimen, Handb. Fl. Ceylon 5: 303. 1900. Syn-types: Sri Lanka; *Thwaites Ceylon Plant 920*. Sri Lanka; *Walker s.n.* Pasdum Korale; *Gardner s.n.*

Lophatherum humile Miq., Prolus. Fl. Japon. 170. 1867. Type: Japan: Prope Nagasaki; 1862; *R. Oldham 948* (L). (vide Tropicos)

Lophatherum lehmannii Nees, Syn. Pl. Glumac. (Steudel) 1: 300. 1854. Type: Nepal; *Lehman s.n.*

Lophatherum multiflorum Steud., Syn. Pl. Glumac. 1: 300. 1854. Type: Java

Lophatherum pilosulum Steud., Syn. Pl. Glumac. 1: 428. 1855. Type: Japan; *I. Keiske s.n.* (L).

Type. “Amboine, dans les Moluques.”

Distribution. Arunachal Pradesh, Assam, Kerala, Meghalaya, Sikkim, Tamil Nadu [Bhutan, China, Myanmar, Nepal, Sri Lanka].

Habit. Perennial.

Tribe Paspaleae J. Presl, 1830

Members of this tribe are morphologically disparate, with no obvious shared morphological character (Kellogg 2015b). Most species have a chromosome base number of $x = 10$ (Giussani et al. 2001).

***Axonopus* P. Beauv., Ess. Agrostogr. 12, 154. 1812**

Lectotype. *Axonopus compressus* (Sw.) P. Beauv. (*Milium compressum* Sw.). LT designated by Hitchcock in Contr. U.S. Natl. Herb. 12: 142. 1908; Chase, Proc. Biol. Soc. Wash. 24: 129. 1911.

583. *Axonopus compressus* (Sw.) P. Beauv., Ess. Agrostogr. 154, 167. 1812

Milium compressum Sw., Prodr. (Swartz). 24. 1788. Type: Jamaica; *Swartz s.n.* India orientalis

Paspalum compressum (Sw.) Raspail, Ann. Sci. Nat. (Paris) 5: 301. 1825

Paspalum platyculmum Thouars ex Nees, Fl. Bras. Enum. Pl. 2(1): 24. 1829. Type: “Habitat in insula S. Mauritii.”

Paspalum depressum Steud., Syn. Pl. Glumac. 1: 20. 1853. Type: USA: Louisiana; *FX. von Hartmann* 51(P).

Paspalum filostachyum A. Rich. ex Steud., Syn. Pl. Glumac. 1: 20. 1853. Type: West Indies; *F.W. Sieber* 365 (P).

Paspalum guadaloupense Steud., Syn. Pl. Glumac. 1: 18. 1853. Type: Guadeloupe; *Duchaissing s.n.* (P).

Paspalum platycaulon Poir., Encycl. (Lamarck) 5: 34. 1804 [as “platycaule” in IPNI] Type: “Cette espece a été recueillie a Porto Ricco, par le citoyen Ledru.” Puerto Rico; *A.P. Ledrú s.n.* (P-LAM).

Anastrophus platycaulis (Poir.) Nash, Fl. S.E. U.S. [Small]. 79, 1327. 1903

Digitaria platycaulis (Poir) Desv., Mém. Soc. Agric. Angers 62. 1831

Panicum platycaulon (Poir.) Kuntze, Revis. Gen. Pl. 3: 363. 1898 (as “Platycaulon”)

Paspalum raunkiaerii Mez, Repert. Spec. Nov. Regni Veg. 15: 60. 1917. Type: Antillarum insula St. Jan; *Raunkiaer* 1313

Paspalum tristachyon Lam., Tabl. Encycl. 1: 176. 1791. Type: “Ex America merid. Communic. D. Richard.” South America; *L.C.M. Richard s.n.* (P-LAM).

Paspalum laticulmum Spreng., Syst. Veg. (ed. 16) [Sprengel] 1: 245. 1824 (“1825”), nom. superfl. & illeg. for *Paspalum tristachyon*.

Agrostis compressa (Sw.) Poir., Encycl. (Lamarck) Suppl. 1: 259. 1810, non *Axonopus compressa* Willd., 1790

Digitaria domingensis Desv. ex Kunth, Enum. Pl. (Kunth) 1: 49. 1833, non Roem. & Schult., 1817

Anastrophus compressus sensu Schltr. ex Döll., Fl. Bras. (Martius) 2(2): 102. 1877, non Schltdl., 1850

Distribution. Andaman and Nicobar Islands, Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Himachal Pradesh, Karnataka, Kerala, Maharashtra, Meghalaya, Tamil Nadu, Uttarakhand, Uttar Pradesh, West Bengal [China, Pakistan].

Habit. Perennial.

Remarks. Records for Arunachal Pradesh, Assam, Kerala and Uttar Pradesh fide Naithani (1990).

584. *Axonopus fissifolius* (Raddi) Kuhl., Commiss. Linhas Telegr. Estraté. Matto Grosso Amazonas 67(11): 87. 1922

Paspalum fissifolium Raddi, Agrostogr. Bras. [Raddi] 26. 1823 (as “*Paspalus fissifolius*”). Type: Brazil. Rio de Janeiro: Guanabara, s.d., *G. Raddi s.n.* (holotype, PI; isotypes, BM 678791, FI, FI fragm. in BAA 313, G, PI fragm. in US 2766195).
Axonopus affinis A. Chase, J. Wash. Acad. Sci. 28: 180. f. 1–2. 1938. Type: USA: Mississippi: Waynesboro, in low moist ground, 2 Oct. 1896, *T.H. Kearney 175*.

Distribution. Uttar Pradesh. Possibly naturalized; native to North America.

Habit. Perennial.

Remarks. Record for Uttar Pradesh fide Naithani (1990).

***Hildaea* C. Silva & R.P. Oliveira, Molec. Phylog. Evol. 93: 229. 2015**

Type. *Hildaea pallens* (Sw.) C. Silva & R.P. Oliveira (*Panicum pallens* Sw.).

585. *Hildaea pallens* (Sw.) C. Silva & R.P. Oliveira, Molec. Phylog. Evol. 93: 229. 2015.

Panicum pallens Sw., Prodr. (Swartz) 23. 1788. Lectotype: O.P. Swartz s.n.; Jamaica, designated by Stieber, Syst. Bot. 12: 203 (1987)

Ichnanthus pallens (Sw.) Munro ex Benth., Fl. Hongk. 414. 1861

Panicum vicinum F.M. Bailey, Syn. Queensl. Fl. Suppl. 3: 82. 1890. Type: Australia: Queensland, Harvey Creek, headwaters of Russell River; *Bailey 22* (BRI). Australia, Queensland, Harveys's Creek, Russell River, on rich scrubland; *Bailey s.n.* (BRI).

Ichnanthus vicinus (F.M. Bailey) Merr., Philipp. J. Sci. 20(4): 367–368. 1922

Panicum nitens Merr., Publ. Bur. Sci. Gov. Lab. 17: 8. 1904, non K. Schum., 1901. Type: Philippines: Province of Bataan, Luzon, Mount Mariveles; January 1, 1904; *Merrill 3756*

Distribution. Andaman and Nicobar Islands, Andhra Pradesh, Assam, Delhi, Kerala, Nagaland, Odisha, Tamil Nadu [Sri Lanka], Andaman and Nicobar Islands. Pantropical.

Habit. Perennial.

Remarks. Chorge et al. (2013) indicate that *Hildaea pallens* var. *majus* (Nees) Stieber (as *Ichnanthus pallens*) is widely distributed in India and is synonymous with *I. vicinus*. *Hildaea pallens* var. *pallens* is only recorded from the Andaman Islands; this variety is primarily neotropical with sporadic records from Southeast Asia.

***Hymenachne* P. Beauv., Ess. Agrostogr. 48, 165. 1812**

Lectotype. *Hymenachne myuros* (Lam.) P. Beauv. (*Panicum myuros* Lam. (“myruos”)) LT designated by L. K. G. Pfeiffer, Nom. 1: 1702. 1873.

586. *Hymenachne amplexicaulis* (Rudge) Nees, Fl. Bras. Enum. Pl. 2(1): 276. 1829

Panicum amplexicaule Rudge, Pl. Guian. 1: 21. t. 27. 1805. Type: Guianas; *Rudge s.n.* French Guiana; *Martin s.n.*

Hymenachne pseudointerrupta Müll. Hal., Bot. Zeitung (Berlin) 19(45): 333. 1861. Type: India orientalis, Bengalia et Malacca; *Griffith s.n.*

Panicum myuros sensu Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 39. 1896, non Lam., 1791

Hymenachne acutigluma (Steud.) Gilliland, Gard. Bull. Singapore 20(4): 314. 1964

Panicum acutiglumum Steud., Syn. Pl. Glumac. 1: 66. 1853. Type: Philippine Islands; *Cuming 2287 (P).*

Distribution. Andhra Pradesh, Assam, Bihar, Karnataka, Kerala, Maharashtra, Meghalaya, Odisha, Rajasthan, Tripura, Uttar Pradesh, West Bengal [China, Myanmar]. Pan-tropical, possibly native to the Americas.

Habit. Perennial.

587. *Hymenachne assamica* (Hook. f.) Hitchc., Lingnan Sci. J. 7: 222. 1931 (as “assamicum”)

Panicum assamicum Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 40. 1896. Syntypes: India: Assam; *Masters s.n.*, *Griffith s.n.* Dacca; *C.B. Clarke s.n.*

Distribution. Assam [China].

Habit. Perennial.

Remarks. Taxonomic editor Zuloaga questions whether this species actually occurs in India.

588. *Hymenachne aurita* (J. Presl. ex Nees) Balansa, J. Bot. (Morot) 4: 144. 1890

Panicum auritum J. Presl. ex Nees, Fl. Bras. Enum. Pl. 2(1): 176. 1829. Lectotype: Philippines: “Luzon”; *Haenke s.n.* (PR). LT designated by Veldkamp in *Blumea* 41(1): 187. 1996

Sacciolepis aurita (J. Presl. ex Nees) E.G. Camus & A. Camus, Fl. Indo-Chine [P.H. Lecomte et al.] 7: 459. 1922

Panicum insulicolum Steud., Syn. Pl. Glumac. 1: 78. 1853 (as “insulicola”). Type: Indonesia: Java, Sri Lanka

Sacciolepis insulicola (Steud.) Ohwi, Bull. Tokyo Sci. Mus. 18: 3. 1947

Panicum javanum Nees ex Buse, Pl. Jungh. 376. 1854, non poir, 1816. Lectotype: *Junghuhn s.n.* (L-sh908.91-2190). LT designated by Veldkamp in Blumea 41(1): 187. 1996.

Distribution. Andaman and Nicobar Islands, Assam, Bihar, Karnataka, Kerala, Nagaland, Sikkim, Tripura, West Bengal [China, Myanmar].

Habit. Perennial.

589. *Hymenachne panduranganii* J. Remya & Geethakum., Nordic. J. Bot. 35(2): 201–204, f. 1–2. 2016.

Type. India, Kerala, Wayanad district, Thirunelli, at 900 m a.s.l., 11 November 2014, Remya J 83272 (holotype: TBGT, isotypes: MH, CAL).

Distribution. Kerala.

Habit. Perennial

***Paspalum* L., Syst. Nat., ed. 10. 2: 855, 1359. 1759**

Lectotype. *Paspalum dimidiatum* L., nom. illeg. (*Panicum dissectum* L., *Paspalum dissectum* (L.) L.). Designated by Nash in N. Amer. Fl. 17: 165. 1912; affirmed by Hitchcock, Bull. U.S.D.A. 772: 225. 1920.

590. *Paspalum canarae* (Steud.) Veldkamp, Blumea 21(1): 72. 1973 var. *canarae*

Panicum canarae Steud., Syn. Pl. Glumac. 1: 58. 1853. Type: India: Canara Province; *R.F. Hohenacker 635*

Panicum compactum auct. non Roth ex Roem. & Schult., 1817: Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 12. 1896

Distribution. Andhra Pradesh, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Tamil Nadu.

Habit. Annual.

591. *Paspalum canarae* (Steud.) Veldkamp var. *fimbriatum* (Bor) Veldkamp, *Blumea* 21(1): 72. 1973

Paspalum compactum Roth ex Roem. & Schult. var. *fimbriatum* Bor, Grasses Burma, Ceylon, India and Pakistan 336. 1960. Type: India: Maharashtra, Bombay; *Bole* 305 (K).

Distribution. Karnataka, Kerala, Maharashtra.

Habit. Annual.

Remarks. Distribution in India fide Naithani (1990).

592. *Paspalum conjugatum* P. J. Bergius, *Acta Helv. Phys.-Math.* 7: 129, t. 8. 1762

Paspalum ciliatum Lam., Tabl. Encycl. 1: 175. 1791. Type: French Guiana; *D. LeBlond s.n.* (P-LAM).

Paspalum longissimum Hochst. ex Steud., Syn. Pl. Glumac. 1: 19. 1853. Type: Surinam: in districtu Surinamense Para; February-April, 1844; *A. Kappler* 1556 (P).

Paspalum renggeri Steud., Syn. Pl. Glumac. 1: 17. 1853. Type: Paraguay; *J.R. Rengger s.n.* (P).

Paspalum bicrurum Saltzm. ex Döll, Fl. Bras. (Martius) 2(2): 55. 1877, nom. nud. cited as synonym of *Paspalum conjugatum*.

Paspalum ciliatifolium sensu Trin., Mém. Acad. Imp. Sci. Saint-Pétersbourg, Sér. 6, Sci. Math. Seconde Pt. Sci. Nat. 3, 1(2–3): 340. 1834, non Michx., 1803.

Paspalum hirsutum sensu Poir., Encycl. (Lamarck) 5: 28. 1804, non Retz. 1781.

Type. “Habitat in Surinamo.” France: Surinam; *Rolander in Herb. Bergius* 36(SBT). LT designated by de Koning & Sosef, *Blumea* 30: 290. 1985

Distribution. Andaman and Nicobar Islands, Andhra Pradesh, Arunachal Pradesh, Assam, Karnataka, Kerala, Maharashtra, Meghalaya, Odisha, Sikkim, Tamil Nadu, Tripura, Uttar Pradesh, West Bengal [China, Sri Lanka].

Habit. Perennial.

593. *Paspalum dilatatum* Poir., *Encycl. (Lamarck)* 5: 35. 1804

Type. “Cette plante a été recueillie a Buenos-Ayres par Commerson.” Argentina: Buenos Aires; *P. Commerson s.n.* (P-LAM).

Distribution. Assam, Himachal Pradesh, Kerala, Maharashtra, Meghalaya, Nagaland, Rajasthan, Sikkim, Tamil Nadu, Uttar Pradesh, Uttarakhand, West Bengal [China, Sri Lanka]. Native to South America, introduced to North America, Europe and Aisa.

Habit. Perennial.

Remarks. Records for Meghalaya, Nagaland, and Uttar Pradesh fide Naithani (1990).

594. *Paspalum distichum* L., Syst. Nat., ed. 10, 2: 855. 1759.

Paspalum paspalodes (Michx.) Scribn., Mem. Torrey. Bot. Club 5(3): 29. 1894 (as “paspaloides”)

Digitaria paspalodes Michx., Fl. Bor.-Amer. (Michaux) 1: 46. 1803. Type: USA: “in pascuis aridis juxta Charlston”; *Michaux s.n.* (P-MICH).

Type. “Habitat [in Jamaica.]” LT: *P. Browne s.n.*; ; Jamaica (LINN-75.9, second fertile culm from the left) LT designated by Guedes, Taxon 25: 513 (1976), and earlier discussed by Jovet & Guedes, Taxon 21: 546 (1972); formally ruled on by Nom. Comm., Taxon 32: 281 (1983).

Distribution. Andaman and Nicobar Islands, Andhra Pradesh, Assam, Bihar, Gujarat, Haryana, Himachal Pradesh, Jammu and Kashmir, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Meghalaya, Odisha, Punjab, Rajasthan, Tamil Nadu, Uttar Pradesh, West Bengal [Pakistan]. Pantropical.

Habit. Perennial.

Remarks. This species is often confused with *P. vaginatum*. Taxonomic editor Zuloaga notes that “Bor (1960) cited *P. distichum* in India and Pakistan, and included in the species several synonyms. Also he correctly differentiated *P. distichum* from *P. vaginatum* by a hairy upper glume in the former species.” Zuloaga concludes that it is likely that *P. distichum* is present in India.

595. *Paspalum longifolium* Roxb., Fl. Ind. (Carey & Wallich ed.) 1: 283. 1820 var. *longifolium*

Paspalum scrobiculatum var. *longifolium* (Roxb.) Domin, Biblioth. Bot. 85: 288. 1915

Type. “Of what country this is a native is uncertain. It appeared in the Botanic Garden in 1807.” India, Cult.; *Roxburgh s.n.* (BM).

Distribution. Andaman and Nicobar Islands, Assam, Bihar, Gujarat, Haryana, Kerala, Madhya Pradesh, Nagaland, Odisha, Tamil Nadu, Tripura, Uttar Pradesh, West Bengal [Bhutan, Myanmar, Nepal, Sri Lanka].

Habit. Perennial.

Remarks. Records from Assam, Gujarat, Haryana, Kerala, Madhya Pradesh, Nagaland, Uttar Pradesh, and Nepal fide Naithani (1990).

596. *Paspalum longifolium* Roxb. var. *lorirhachis* Bor, Fl. Assam 5: 253. 1940**Type.** India: Assam, Bhomraguri, Darrang; *N.L. Bor* 78485 (DD).**Distribution.** Assam.**Habit.** Perennial.**Remarks.** Record for Assam fide Naithani (1990).**597. *Paspalum notatum* Fluegge, Gram. Monogr., Paspalum 106. 1810 (as “*Paspalus notatus*”)***Paspalum taphrophyllum* Steud., Syn. Pl. Glumac. 1: 19. 1853. Type: Martinica; *F.W. Sieber* 365 (L).**Type.** West Indies: Virgin Islands, St. Thomas; 1802; *Ventenat s.n.* (B).**Distribution.** India. Native to North and South America.**Habit.** Perennial.**Remarks.** Distribution in India not recorded.**598. *Paspalum plicatulum* Michx., Fl. Bor.-Amer. (Michaux) 1: 45. 1803***Panicum plicatulum* (Michx.) Kuntze, Revis. Gen. Pl. 3: 363. 1898*Paspalum antillense* Husn., Bull. Soc. Linn. Normandie ser. 2, 5: 260. 1870. Type: “Alt. 640–1300 ft.-Bords des chemins-Route de la Basse-Terre au camp Jacob (Gaud.)” Guadeloupe; *P.T. Husnot* 76 (US-2854152 (fragm. ex BR)).*Paspalum atrocarpum* Steud., Syn. Pl. Glumac. 1: 25. 1853. Type: “Ex. Hrbo. Urville sine loco natali.”*Paspalum montevidense* Spreng., Syst. Veg. (ed. 16) [Sprengel] 1: 246. 1824 (“1825”). Type: Uruguay: Montevideo; *F. Sellow* 670*Paspalum multiflorum* Desv., Opusc. Sci. Phys. Nat. 58. 1831. Type: “Crescit in Brasilio.” (P).*Paspalum tenue* Kunth, Révis. Gramin. 1: 26. 1829*Paspalum undulatum* Poir., Encycl. (Lamarck) 5: 29. 1804. Type: “Cette plante croit a Porto-Ricco per le citoyen Ledru.” Puerto Rico; *A.P. Ledrú s.n.* (P-LAM).*Paspalum campestre* Schlecht., Linnaea 26: 131. 1853, non Trin., 1834*Paspalum gracile* Leconte, J. Phys. Chim. Hist. Nat. Arts 91: 285. 1820, non Rudge, 1805. Type: America: Georgia*Paspalum plicatum* sensu Pers., Syn. Pl. (Persoon) 1: 86. 1805 Michx., 1803*Paspalum marginatum* sensu Spreng. ex Steud., Nomencl. Bot., ed. 2 (Steudel) 2: 272. 1841, non Trin., 1826**Type.** USA: “Hab. in Georgia et Florida”; *Michaux s.n.* (P).

Distribution. India [China]. Naturalized. Native to tropical North and South America.

Habit. Perennial.

Remarks. Distribution in India not recorded.

599. *Paspalum scrobiculatum* L., Mant. Pl. 29. 1767 var. *scrobiculatum*

Paspalum cartilagineum J. Presl in C. Presl, Reliq. Haenk. 1(4–5): 216. 1830. Type: “Habitat in insula Luzonia ad Sorzogon, in Marianis” Lectotype: Philippines: Luzon, Sorzogon; 1792; *Haenke s.n.* (PR). (vide de Koning & Sosef, Blumea 30 305. 1985).

Paspalum commersonii Lam., Tabl. Encycl. 1: 175. t. 43. f. 1. 1791 (as “commerson”). Type: “Lieu nat. l’Isle de France.” Mauritius; *P. Commerson s.n.* (P-LAM).

Paspalum orbiculare G. Forst., Fl. Ins. Austr. 7. 1786. Type: Society Islands; *Forster s.n.* (GOET).

Paspalum kora Willd., Sp. Pl., ed. 4 [Willdenow] 1: 332. 1797, nom. superfl. & illeg. for *P. orbiculare*

Paspalum scrobiculatum L. var. *bispicatum* Hack., Allg. Bot. Zeitschr. 20:146. 1914.

Type. “Habitat in India orientali.” Lectotype: *Herb. Linn. No. 79.4* (LINN). LT designated by Clayton in Kew Bull. 30: 101. 1975.

Distribution. Andhra Pradesh, Assam, Chhattisgarh, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Punjab, Rajasthan, Tamil Nadu [Sri Lanka].

Habit. Perennial.

Remarks. Records for Assam and Maharashtra fide Naithani (1990).

600. *Paspalum scrobiculatum* L. var. *auriculatum* (J. Presl) Merr., Philipp. J. Sci. 1(Suppl. 5): 345. 1906

Paspalum auriculatum J. Presl in C. Presl, Reliq. Haenk. 1(4–5): 217. 1830. Type: “Habitat in Luzonia ad Sorzogon” Lectotype: Philippines: Luzon, Sorzogon; *Haenke s.n.* (the 3 right-hand side specimens) (PR). (vide de Koning & Sosef, Blumea 30: 304. 1985).

Distribution. Andhra Pradesh, Karnataka, Tamil Nadu [also in the Philippines].

Habit. Perennial.

Remarks. Taxonomic editor Zuloaga notes that this taxon is native in other parts of Asia but might be naturalized or only cultivated in parts of India.

601. *Paspalum scrobiculatum* L. var. *horneri* (Henrard) de Konnig & Sosef, Blumea 30(2): 307. f. 7B. 1985

Paspalum horneri Henrard, Blumea 1(2): 306. f. 2. 1935. Type: Sumatra: Prairien; *Horner s.n.* (L).

Distribution. Andhra Pradesh, Assam [also in Indonesia].

Habit. Perennial.

Remarks. Record for Assam fide Naithani (1990).

602. *Paspalum thunbergii* Kunth, Révis. Gramin. 1(2): 25, no. 80. 1829

Paspalum scrobiculatum var. *thunbergii* (Kunth) Makino, Bot. Mag. (Tokyo) 10: 60. 1896

Paspalum dissectum sensu Thunb., Fl. Jap. (Thunberg) 45. 1784, non. (L.) L., 1762

Paspalum thunbergii Kunth ex Steud., Nomencl. Bot., ed. 2 (Steudel) 2(2): 273. 1841, isonym

Distribution. Sikkim, West Bengal [Bhutan, China].

Habit. Perennial.

603. *Paspalum urvillei* Steud., Syn. Pl. Glumac. 1: 24. 1853

Paspalum dilatatum Poir. var. *parviflorum* Döll, Fl. Bras. (Martius) 2(2): 64. 1877. Syn-types: Brazil: Lagoa Santa; *E. Warming s.n.* (BR). Brazil: prope Pernambuco; *Forsell s.n.* Uruguay: Montevideo; *Sello s.n.* Rio de Janeiro; *Glaziov* 477

Paspalum larranagae Arechav., Ann. Mus. Nac. Montevideo 1: 60 (reprint 68), t. 2. 1894 (as “larranagai”). Type: Uruguay: Salto, terrenos bajos humedos, viñedo de Harrigue, y en la Vitícola Saltena; March, 1894; *Arechavaleta* 207 (MVM)

Paspalum ovatum Nees ex Trin. var. *parviflorum* Nees, Fl. Bras. Enum. Pl. 2(1): 43. 1829 (as “parviflorus”). Type: Uruguay: Montevideo; *Sellow s.n.*

Paspalum velutinum Trin. ex Nees, Fl. Bras. Enum. Pl. 2(1): 43. 1829, nom. nud., pro syn.

Type. Brazil; 1825; *J.S.C. Dumont de Urville s.n.* (P).

Distribution. India [China, Sri Lanka]. Native to South America; naturalized in North America, Europe, and Asia.

Habit. Perennial.

Remarks. Distribution in India not recorded.

604. *Paspalum vaginatum* Sw., Prodr. (Swartz) 21. 1788 (as “Paspatum”)

Paspalum distichum L. var. *vaginatum* (Sw.) Griseb., Fl. Brit. W.I. (Grisebach) 541. 1864

Sanguinaria vaginata (Sw.) Bubani, Fl. Pyren. (Bubani) 4: 258. 1901

Digitaria foliosa Lag., Gen. Sp. Pl. (Lagasca) 4. 1816. Type: Cuba: “Habitat in Havana, ubi legit D. Balth. Boldo” (MA).

Paspalum foliosum (Lag.) Kunth, Révis. Gramin. 1: 25. 1829

Paspalum inflatum A. Rich. in Sagra, Hist. Fis. Cuba 11: 298. 1850. Type: Cuba: La Habana; *R. de la Sagra s.n.* (P).

Paspalum brachiatum Trin. ex Nees, Fl. Bras. Enum. Pl. 2(1): 62. 1829, nom. nud. pro. syn.

Type. Jamaica; *Swartz s.n.* (S).

Distribution. Andaman and Nicobar Islands, Bihar, Gujarat, Karnataka, Kerala, Madhya Pradesh, Rajasthan, Odisha, Tamil Nadu, Uttar Pradesh, West Bengal [China, Sri Lanka]. Pantropical.

Habit. Perennial.

Tribe Paniceae R. Br., 1814

Members of this tribe are morphologically disparate, with no obvious shared morphological character (Kellogg 2015b; Zuloaga 1987; Zuloaga and Soderstrom 1985). Most species have a chromosome base number of $x=9$ (Giussani et al. 2001).

Taxonomic editors for Paniceae: Fernando Zuloaga, P. (Parigi) Venkateswara Prasanna and Alok R. Chorghe.

***Acroceras* Stapf, Fl. Trop. Africa 9: 621. 1920**

Lectotype. *Acroceras oryzoides* (Sw.) Stapf (*Panicum oryzoides* Sw. 1788, non Arduino 1764), = *Acroceras zizanioides*. LT designated by E. Phillips in Gen. S. Afr. Fl. Pl. ed. 2., 103. 1951.

605. *Acroceras munroanum* (Balansa) Henrard, Blumea 3(3): 444–445. 1940

Panicum munroanum Balansa, J. Bot. (Morot) 4(7): 140. 1890. Type: Sri Lanka; 1857; *Thwaites Ceylon Plant* 3244

Panicum crassiapiculatum Merr., Philipp. J. Sci. 1(Suppl. 5): 356. 1906. Type: Malaya Peninsula, Goping; *King's Collector s.n.*

Acroceras crassiapiculatum (Merr.) Alston in Trimen, Handb. Fl. Ceylon 6: 324. 1931

Panicum ridleyi Hack. ex Ridl., Trans. Linn. Soc. London, Bot. Ser. 2. 3: 400. 1893, nom. nud.

Panicum latifolium sensu Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 39. 1896, non L., 1753

Distribution. Karnataka, Kerala [China, Myanmar, Sri Lanka].

Habit. Perennial.

606. *Acroceras tonkinense* (Balansa) C.E. Hubb. ex Bor, Indian Forest Rec., Bot. n.s. 1(3): 78. 1938

Panicum tonkinense Balansa, J. Bot. (Morot) 4(7): 140. 1890. Syntypes: Vietnam: Tu-Phap, Ouonbi; May, 1887; *Balansa* 1646. Vietnam; September 12, 1885; *Balansa* 442

Neohusnotia tonkinensis (Balansa) A. Camus, Bull. Mus. Natl. Hist. Nat. 26: 664. 1920
Panicum latifolium L. var. *majus* Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 39. 1896. Type: Malay Peninsula: Goping; *King's Collector s.n.*

Distribution. Assam [Myanmar].

Habit. Perennial.

607. *Acroceras zizanioides* (Kunth) Dandy, J. Bot. 69: 54. 1931

Panicum zizanioides Kunth, Nov. Gen. Sp. [H.B.K.] 1: 100 (ed. qto.). 1816. Type: Colombia; *Humboldt & Bonpland* 1606 (B). “Crescit in calidissimis regni Novogranatensis, in ripa fluminis Magdalenae, inter Borjorque et Los Paxarales de Sogamozo, alt. 130 hexap.”

Acroceras oryzoides Stapf, Fl. Trop. Afr. [Oliver et al.] 9: 622. 1920

Panicum balbisianum Schult., Mant. 2 (Schultes) 254. 1824. Type: “In S. Domingo. D. Bertero, *Panicum aturense* Herb. Balbis n. 2578.”

Panicum lutetense K. Schum., Bot. Jahrb. Syst. 24: 332. 1897. Type: Zaire: Congobiet, Lutete, Gebusch, Bachufern, alt. 16000 ft.; *Hens* 194 (K).

Panicum ogowense Franch., Bull. Soc. Hist. Nat. Autun 8: 344–345. 1895. Syntypes: Congo Francais: “Region de l’Ogooué; *Thollon* 727, *Thollon* 832.” Congo belge: à Lutèté; *Fr. Hens* 194

Panicum pseudoryzoides Steud., Syn. Pl. Glumac. 1: 75. 1853. Type: Bahia

Panicum oryzoides Sw., Prodr. (Swartz) 23. 1788, non Ard., 1764. Type: Jamaica; *Swartz s.n.*

Panicum latifolium sensu Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 39. 1896, p.p., non L., 1753

Distribution. Assam [China].

Habit. Perennial.

Remarks. The taxonomic editors note that it is unclear if this species is naturalized (given the large number of New World species in the synonymy), cultivated, or native.

***Alloteropsis* J. Presl, Reliq. Haenk. 1: 343. 1830**

Type. *Alloteropsis distachya* J. Presl.

608. *Alloteropsis ciminica* (L.) Stapf, Fl. Trop. Afr. [Oliver et al.] 9: 487. 1919

Milium ciminum L., Mant. Pl. Altera 184. 1771. Type: "Habitat in Malabaribus et oppidi Johannis plateis. Koenig. 55." Neotype: *Herb. Linn. No. 83.2* (LINN). LT designated by Clayton & Renvoize in Polhill (ed.), *Fl. Trop. E. Africa, Gramineae* 3: 617. 1982.

Axonopus ciminus (L.) P. Beauv., *Ess. Agrostogr.* 154. 1812.

Panicum ciminum (L.) Retz., *Observ. Bot. (Retzius)* 3: 9. 1783.

Urochloa ciminica (L.) Kunth, *Révis. Gramin.* 1: 31. 1829

Coridochloa ciminica (L.) Nees ex A. Chase, *Proc. Biol. Soc. Washington* 24:129. 1911

Distribution. Andaman and Nicobar Islands, Andhra Pradesh, Bihar, Daman and Diu, Delhi, Goa, Gujarat, Haryana, Himachal Pradesh, Jammu and Kashmir, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Rajasthan, Tamil Nadu, Tripura, Uttar Pradesh, West Bengal [China, Myanmar, Sri Lanka].

Habit. Annual.

**609. *Alloteropsis semialata* (R. Br.) Hitchc., Contr. U.S. Natl. Herb. 12: 210. 1909
var. *semialata***

Panicum semialatum R. Br., *Prodr. Fl. Nov. Holland.* 1: 192. 1810. Type: Australia: "Littora Novae Hollandiae intra tropicum"; *R. Brown 6101*(BM)

Oplismenus semialatus (R. Br.) Desv., *Mém. Soc. Agric. Angers* 1: 185. 1831.

Urochloa semialata (R. Br.) Kunth, *Révis. Gramin.* 1: 31. 1829

Axonopus semialatus (R. Br.) Hook. f., *Fl. Brit. India* (J.D. Hooker). 7(22): 64. 1896, p.p.

Arundinella schultzei Benth., *Fl. Austral.* 7: 545. 1878. Type: Australia, North Australia, Port Darwin; *Schultz 31*

Holisetum philippicum Steud., *Syn. Pl. Glumac.* 1: 118. 1854. Type: Philippines: Luzon, Cagayan, Cagayan; *H. Cuming 1363* (L). Philippines: Luzon: Nueva Ecija, Nueva Ecija; *H. Cuming 1414* (L).

Distribution. Andhra Pradesh, Assam, Bihar, Karnataka, Kerala, Manipur, Meghalaya, Mizoram, Nagaland, Odisha, Tamil Nadu, Uttar Pradesh [Myanmar, Sri Lanka].

Habit. Perennial.

610. *Alloteropsis semialata* (R. Br.) Hitchc. var. *eckloniana* (Nees) C.E. Hubb. ex Bor, Grasses Burma, Ceylon, India & Pakistan 277. 1960

Panicum semialatum R. Br. var. *ecklonianum* (Nees) Hack. ex T. Durand. & Schinz, Consp. Fl. Afr. [T.A. Durand & H. Schinz] 5: 764. 1894

Axonopus semialatus (R. Br.) Hook. f. var. *ecklonii* (Nees) Stapf, Fl. Cap. (Harvey) 7: 418. 1899.

Bluffia eckloniana Nees, Del. Sem. Hort. Hamburg. 1834: 8. 1834. Type: “Semina ex America septentrionali sine nomine accepimus.”

Alloteropsis eckloniana (Nees) Hitchc., Proc. Biol. Soc. Wash. 29: 128. 1916.

Distribution. Kerala, Meghalaya, Manipur, Nagaland, Uttar Pradesh [Sri Lanka].

Habit. Perennial.

Remarks. All records other than that for Kerala fide Naithani (1990).

611. *Alloteropsis semialata* (R. Br.) Hitchc. var. *viatica* (Griff.) Ellis & Karthik., Bull. Bot. Surv. India 13(3–4): 175. 1974 (“1971”)

Aira viatica Griff., Not. Pl. Asiat. 3: 54. 1851. Type: India: Churra Punjee; October 18, 1835; *It. ass.* 178

Axonopus semialatus (R. Br.) Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 64. 1896, p.p., excluding type

Distribution. Kerala, Manipur, Meghalaya.

Habit. Perennial.

Remarks. All records for India fide Naithani (1990).

***Cenchrus* L., Sp. Pl. 2: 1049. 1753**

Lectotype. *Cenchrus echinatus* L. LT designated by Green in Prop. Brit. Bot. 193. 1929.

612. *Cenchrus americanus* (L.) Morrone, Ann. Bot. (Oxford), n.s. 106: 127. 2010

Panicum americanum L., Sp. Pl. 1: 56. 1753. Type: “Habitat in America.” Lectotype = “*Panicum Americanum*” in Clusius, Rar. Pl. Hist., 2: 215, 215, 1601. LT des-

ignated by Clayton & Renvoize in Polhill (ed.), Fl. Trop. E. Africa, Gramineae 3: 672. 1982.

Pennisetum americanum (L.) K. Schum., Pflanzenw. Ost-Afrikas B: 51. t. 4. 1895.

Alopecurus typhoides Burm. f., Fl. Ind. (N. L. Burman) 27. 1768. Type: "Gramen alopecuroides, spica maxima Indiae orientalis. Plukn. Almag. 174. t. 32. f. 4"

Pennisetum typhoides (Burm.f.) Stapf & C.E. Hubb., Bull. Misc. Inform. Kew 1933: 271. 1933.

Pennisetum typhoideum L.C. Rich., Syn. Pl. (Persoon) 1: 72. 1805, nom. superfl. & illeg. for *Holcus spicatus*.

Panicum glaucum L., Sp. Pl. 1: 56. 1753. Type: "Habitat in Indiis." Lectotype: *Herb. Hermann* 3: 17, No. 44 (BM-000621854). LT designated by Rauschert in Feddes Rept. 83: 662. 1973.

Pennisetum glaucum (L.) R. Br., Prodr. Fl. Nov. Holland. 1: 195. 1810

Setaria glauca (L.) P. Beauv., Ess. Agrostogr. 169, 178. 1812.

Penicillaria cylindrica Roem. & Schult., Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 498. 1817, p.p. Type: "In India orient., et promont. b. spei."

Pennisetum americanum sensu (L.) Leeke, Z. Naturwiss. 79: 52. 1907, non (L.) K. Schum., 1895

Pennisetum spicatum (L.) Körn., Handb. Getreidebaus 1: 284. 1885, non Roem. & Schult., 1817

Distribution. Andhra Pradesh, Bihar, Gujarat, Karnataka, Madhya Pradesh, Maharashtra, Meghalaya, Nagaland, Punjab, Rajasthan, Sikkim, Tamil Nadu, Tripura, Uttar Pradesh, Uttarakhand, West Bengal [China]. Widely cultivated.

Habit. Annual.

613. *Cenchrus biflorus* Roxb., Fl. Ind. (Carey & Wallich ed.) 1: 238–239. 1820

Cenchrus annularis Andersson, Naturw. Reise Mossambique 553. 1864. Type: "Standort auf sandigen trocknen und feuchten Feldern, auf Tertiarkalkformation, auf den Querimbainseln und dem gegenüberliegenden Festlande, 10–13 S.B. Im Mai und Juni Eingesammelt."

Cenchrus barbatus Schumach., Beskr. Guin. Pl. 43. 1827. Type: Ghana: Guinea; *P. Thonning* s.n.

Cenchrus catharticus Delile, Index Seminum Hort. Reg. Bot. Monspel. 2. 1844, nom. nud.

Type. India: dry elevated parts of the Coromandel coast; *Roxburgh* s.n. (BM).

Distribution. Andhra Pradesh, Bihar, Daman and Diu, Delhi, Goa, Gujarat, Haryana, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Punjab, Rajasthan, Tamil Nadu, Uttar Pradesh [Pakistan].

Habit. Annual.

614. *Cenchrus ciliaris* L., Mant. Pl. Altera 302. 1771

Pennisetum ciliare (L.) Link, Hort. Berol. [Link] 1: 213. 1827

Cenchrus longifolius Hochst. ex Steud., Syn. Pl. Glumac. 1: 109. 1854. Type: Nubia: Ad montem Cordofanum Arasch-Cool inter frutices; October 16, 1839; *Kotschy 190*

Pennisetum cenchroides Rich., Syn. Pl. (Persoon) 1: 72. 1805.

Pennisetum incomptum Nees, Syn. Pl. Glumac. (Steudel) 1: 105. 1854. Type: Nepal; *Royle herb.* 55

Pennisetum petraeum Steud., Syn. Pl. Glumac. 1: 106. 1854. Type: “Hochst. hrbr. un. it. arab. nr. 153.” “*P. refescens* Hochst. *Kotschy hrb.* nr. 170, *Arb. petr. Persia.*”

Setaria vulpina P. Beauv., Ess. Agrostogr. 171, 178. 1812

Panicum vulpinum Willd., Enum. Pl. (Willdenow) 1: 1031. 1809, non L., 1753

Pennisetum rufescens Hochst. ex Steud., Syn. Pl. Glumac. 1: 106. in syn., non (Desf.) Spreng., 1825

Cenchrus glaucus Mudaliar & Sundararaj, J. Bombay Nat. Hist. Soc. 54: 926. 1958. Type: India: Coimbatore, Agricultural College; *D.D. Sundararaj 93840a* (MH).

Type. “Habitat ad. Cap. b. spei margines agrorum et in dunis. Koenig.” Lectotype: *Koenig s.n., Herb. Linn. No. 1217.9* (LINN). LT designated by Clayton & Renvoize in Polhill (ed.), *Fl. Trop. E. Africa, Gramineae* 3: 691. 1982.

Distribution. Andhra Pradesh, Assam, Bihar, Chhattisgarh, Daman and Diu, Delhi, Gujarat, Jammu and Kashmir, Karnataka, Madhya Pradesh, Maharashtra, Punjab, Rajasthan, Tamil Nadu, Uttar Pradesh [China, Nepal].

Habit. Perennial.

Remarks. See also DeLisle (1962).

615. *Cenchrus clandestinus* (Hochst. ex Chiov.) Morrone, Ann. Bot. (Oxford) n.s., 106: 127. 2010

Pennisetum clandestinum Hochst. ex Chiov., Annuario Reale Ist. Bot. Roma 8(1): 41, t. 5, f. 2. 1903. Type: “In Abyssinia legit W. Schimper no. 2084.” Ethiopia; *Schimper 2084* (FI).

Distribution. Andhra Pradesh, Assam, Sikkim, Tamil Nadu, Uttarakhand [also in Ethiopia].

Habit. Perennial.

616. *Cenchrus compressus* (R. Br.) Morrone, Ann. Bot. (Oxford) n.s., 106: 127. 2010

Pennisetum compressum R. Br., Prodr. Fl. Nov. Holland.: 195. 1810

- Panicum alopecuroides* L., Sp. Pl. 1: 55. 1753. Type: "Habitat in China." Lectotype: Herb. Linn. No. 80.1 (LINN). LT designated by Veldkamp in Cafferty et al. (ed.), Taxon 49: 253. 2000
- Pennisetum alopecuroides* (L.) Spreng., Syst. Veg. (ed. 16) [Sprengel] 1: 303. 1824 ("1825")
- Penicillaria alopecuroides* (L.) Sweet, Hort. Brit. [Sweet] 440. 1826
- Alopecurus indicus* L., Syst. Veg. ed. 13: 92. 1774, nom.superfl. & illeg.
- Pennisetum villosum* R. Br. ex Fresen., Mus. Senckenberg. 2: 134. 1837. Type: Ethiopia; *H. Salt s.n.*
- Cenchrus villosus* (R. Br. ex Fresen.) Kuntze, Revis. Gen. Pl. 3(3): 347. 1898, non Spreng., 1824
- Pennisetum longistylum* sensu E. Vilm., Fl. Pleine Terre ed. 1: 599. 1863, non Hochst., 1851

Distribution. Karnataka, Tamil Nadu [China, Myanmar]. Naturalized. Native to East Africa.

Habit. Perennial.

Remarks. Author Kailash notes that "According to the USDA-GRIN, *Cenchrus purpurascens* Thunb. (in Trans. Linn. Soc. London 2:329. 1794) is the correct name for this species."

617. *Cenchrus divisus* (Forssk. ex J.F. Gmel.) Verloove, Govaerts & Buttler, Phytotaxa 181(1): 59. 2014

- Panicum divisum* Forssk. ex J.F.Gmel., Syst. Nat., ed. 13[bis]. 2: 156. 1791. Type: Arabia; *Forsskal s.n.* (C).
- Pennisetum divisum* (Forssk. ex J.F. Gmel.) Henrard, Blumea 3(1): 162. 1938, in obs.
- Panicum dichotomum* Forssk., Fl. Aegypt.-Arab. 20. 1775, non L., 1753. Type: "Abrab Tummdm. Ubique in campis Arabiae. Fimul cum Panico Bockar."
- Pennisetum dichotomum* Delile, Descr. Egypte, Hist. Nat. 2: 15, t. 8, f.1. 1813–1814
- Pennisetum elatum* Hochst. ex Steud., Syn. Pl. Glumac. 1: 106. 1854. Type: Arabia; *Herb. un.it. arab. 308*
- Gymnotrix longiglumis* Munro ex Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 85. 1896, nom. nud.
- Cenchrus ramosissimus* Poiret in Lam., Encycl. 6: 51. 1804. Type. "Cette plante croit in Egypte", V.S. in herb. Lam.

Distribution. Gujarat [also in Saudi Arabia, Africa].

Habit. Perennial.

Remarks. See also Verloove (2012).

618. *Cenchrus echinatus* L., Sp. Pl. 2: 1050. 1753

Cenchrus brevisetus E. Fourn., Mexic. Pl. 2: 50. 1886. Type: Mexico: Veracruz, Valle de Orizaba; no date; *Schafn no. 198 in Bourgeau 3140* (US-978731 (fragm. ex LE)). Nicaragua; *P. Levy 235*

Cenchrus pungens Kunth, Nov. Gen. Sp. [H.B.K.] 1: 115 (ed. qto.). 1816. Type: “Crescit locis calidis, planis, subinundatis regni Peruviani prope Guayaquil.” Ecuador: Guayaquil; *Humboldt & Bonpland s.n.*(P).

Cenchrus viridis Spreng., Syst. Veg. (ed. 16) [Sprengel] 1: 301. 1824 (“1825”). Type: Guadeloupe; 1817–1819; *Bertero s.n.* (B).

Type. “Habitat in Jamaica, Curassao.” Lectotype: *Herb. A. van Royen, sheet no. 912.356-116* (L). LT designated by Veldkamp in Jarvis et al. (ed.), *Regnum Veg.* 127: 31. 1993.

Distribution. Kerala [China]. Naturalized. Native to North and South America.

Habit. Annual.

619. *Cenchrus flaccidus* (Griseb.) Morrone, Ann. Bot. (Oxford) n.s., 106: 128. 2010

Pennisetum flaccidum Griseb., Nachr. Königl. Ges. Wiss. Georg-Augusts-Univ. 86. 1868. Type: India: Kashmir, Ladak, Nubra, alt. 9000–13000 ft.; *Thomson s.n.*

Distribution. Jammu and Kashmir, Uttar Pradesh, Uttarakhand [Afghanistan, Bhutan, China, Nepal, Pakistan].

Habit. Perennial.

620. *Cenchrus hohenackeri* (Hochst. ex Steud.) Morrone, Ann. Bot. (Oxford) n.s., 106: 128. 2010

Pennisetum hohenackeri Steud., Syn. Pl. Glumac. 1: 103. 1854. Type: India: Tamil Nadu, Nilgherry Mountains; 1851; *R.F. Hohenacker 930*

Pennisetum alopecuroides Nees ex Steud., Syn. Pl. Glumac. 1: 102. 1854, non J. Jacq., 1844. Type: India; *Wight s.n.* as *Gymnotrix cenchroides*. *Rottler s.n.* as *Cenchrus hordeiformis*.

Pennisetum aureum sensu Dalzell & A. Gibson., Bombay Fl. 294. 1861, non Link, 1827.

Distribution. Andhra Pradesh, Bihar, Chhattisgarh, Gujarat, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Rajasthan, Tamil Nadu [Pakistan].

Habit. Perennial.

621. *Cenchrus hordeoides* (Lam.) Morrone, Ann. Bot. (Oxford) n.s., 106: 128. 2010

Panicum hordeoides Lam., Tabl. Encycl. 1(1): 170. 1791. Type: "E. Siera Leona, Smeathm."

Pennisetum hordeoides (Lam.) Steud., Syn. Pl. Glumac. 1: 103. 1854

Gymnotrix hordeoides (Lam.) Kunth, Révis. Gramin. 1: 48. 1829 (as "Gumnothrix")

Cenchrus parviflorus Poir., Encycl. (Lamarck) 6: 52. 1804. Type: "Cette plante croit a Porto-Ricco. Elle a été communiquée a M. Lamarck par M. Ventenat." Puerto Rico; *M. Ventenat s.n.* (P).

Pennisetum parviflorum (Poir.) Trin., Gram. Panic. [Trinius] 65. 1826

Pennisetum antillarum (Poir.) Desv., Opusc. Sci. Phys. Nat. 76. 1831

Saccharum antillarum (Poir.) Roem. & Schult., Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 877. 1817.

Setaria antillarum (Poir.) Kunth, Révis. Gramin. 1: 46. 1829

Pennisetum imberbe Edgew., J. Asiat. Soc. Bengal 21: 181. 1852, isonym. Type: [India]: "Found at Gurhrampur, November."

Distribution. Bihar, Madhya Pradesh, Rajasthan. Naturalized.

Habit. Annual.

622. *Cenchrus lanatus* (Klotzsch) Morrone, Ann. Bot. (Oxford) n.s., 106: 128. 2010

Pennisetum lanatum Klotzsch, Bot. Ergebn. Reise Waldemar 65. t. 99. 1862. Type: "Beide Formen werden im Suden von Europa haufig angebaut." "Prinzen Waldemar auf Ceylon, dem Himalaya und an den Grenzen von Tibet gesammelte Pflanzen."

Pennisetum nepalense sensu Griseb., Nachr. Königl. Ges. Wiss. Georg-Augusts-Univ. 86. 1868, non Spreng., 1825

Distribution. Jammu and Kashmir [Afghanistan, China, Nepal, Pakistan].

Habit. Perennial.

623. *Cenchrus mezianus* (Leeke) Morrone, Ann. Bot. (Oxford) n.s., 106: 128. 2010

Pennisetum mezianum Leeke, Z. Naturwiss. 79: 39. 1907. Type: "Ostafrika, Somali-land, Brit-Ostafrika, Deutsch-Ostafrika."

Pennisetum brachystachyum Hack., Vierteljahrsschr. Naturf. Ges. Zürich 55: 233. 1910. Type: [Africa] "Britisch-Ostafrika": Makindu River; April 14, 1902; *Kassner* 584 (US).

Pennisetum massaicum Stapf, Bull. Misc. Inform. Kew 1906: 82. 1906, p.p. Type: British East Africa: Kikumbuli; *Scott Elliot* 6292. Makindu; *Kassner* 584, *Linton* 72. Baringo; 3400 ft.; *Johnston s.n.*

Distribution. India [also in Africa].

Habit. Perennial.

Remarks. Distribution in India not recorded.

624. *Cenchrus orientalis* (Rich.) Morrone, Ann. Bot. (Oxford) n.s., 106: 128. 2010

Pennisetum orientale Rich., Syn. Pl. (Persoon) 1: 72. 1805. Type: “Hab. in Oriente.”

Panicum orientale (Rich.) Willd., Enum. Pl. (Willdenow) 2: 1031. 1809. Type: “Habitat in Galatia.”

Pennisetum fasciculatum Trin., Mém. Acad. Imp. Sci. Saint-Pétersbourg, Sér. 6, Sci. Math., Seconde Pt. Sci. Nat. 3, 1(1–2): 181. 1834. Type: “V. ssp. Pers. et e monte Sinai.”

Pennisetum orientale Rich. var. *triflorum* (Nees ex Steud.) Stapf ex Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 86. 1896

Pennisetum triflorum Nees ex Steud., Syn. Pl. Glumac. 1: 107. 1854. Type: Nepal; *Royle* 59

Distribution. Bihar, Chhattisgarh, Himachal Pradesh, Jammu and Kashmir, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Punjab, Rajasthan, Sikkim, Tamil Nadu, Uttar Pradesh, West Bengal [Afghanistan, Nepal, Pakistan].

Habit. Not recorded.

625. *Cenchrus pedicellatus* (Trin.) Morrone, Ann. Bot. (Oxford) n.s., 106: 128. 2010

Pennisetum pedicellatum Trin., Mém. Acad. Imp. Sci. Saint-Pétersbourg, Sér. 6, Sci. Math., Seconde Pt. Sci. Nat. 3, 1(2–3): 184. 1834. Type: Cape Verde Islands, St. Iago; *D. Peters s.n.* (LE-TRIN-1101.01).

Eriochaeta densiflora Fig. & de Not., Mem. Reale Accad. Sci. Torino ser. 2, 14: 376. t. 31. 1854. Type: Africa: “In Nubia superiore iisdem locis ac praecedens.”

Pennisetum densiflorum (Fig. & De Not.) T. Durand & Schinz, Consp. Fl. Afr. [T.A. Durand & H. Schinz] 5: 778. 1894.

Eriochaeta reversa Fig. & De Not., Mem. Reale Accad. Sci. Torino ser. 2, 14: 378. t. 32. 1854. Type: Africa: “In nubia superiore cum praecedentibus.”

Eriochaeta secundiflora Fig. & De Not., Mem. Reale Accad. Sci. Torino ser. 2, 14: 375. t. 30. 1854. Type: Africa: “In Nubiae superiois regione Kordofan.”

Pennisetum secundiflorum (Fig. & De Not.) T. Durand & Schinz, Consp. Fl. Afr. [T.A. Durand & H. Schinz] 5: 784. 1894

Pennisetum amoenum Hochst. ex A. Rich., Tent. Fl. Abyss. 2: 386. 1850–1851. Type: “Crescit circa Aderbati, mense Septembre (Quartin Dillon, Schimper).” Ethiopia: crescit circa Aderbati; *Schimper* 641 (P). Ethiopia: crescit circa Aderbati; *Quartin Dillon s.n.* (P).

Pennisetum araneosum Edgew., J. Asiat. Soc. Bengal 21: 180. 1852.

Pennisetum implicatum Steud., Syn. Pl. Glumac. 1: 107. 1854. Type: “Leprieur legit in Senegambria”; *Leprieur s.n.*

Pennisetum intertextum Schlecht., Bot. Zeitung (Berlin) 9: 878. 1851. Type: [Africa: Cape Verde Is.]: “An den Seiten der Thaler zwischen Steinen auf der Insel Mayo”; *C. Pabst s.n.*

Pennisetum notarisii T. Durand & Schinz, Consp. Fl. Afr. [T.A. Durand & H. Schinz] 5: 781. 1894

Pennisetum dillonii Steud., Syn. Pl. Glumac. 1: 107. 1854, in obs., nom. nud. (as “dillonii”). Type: “Prov. Chire. Abyssin.”

Distribution. Andhra Pradesh, Assam, Bihar, Chhattisgarh, Gujarat, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Punjab, Rajasthan, Tamil Nadu, Uttar Pradesh, West Bengal [China].

Habit. Annual.

626. *Cenchrus pennisetiformis* Hochst. & Steud., Syn. Pl. Glumac. 1: 109. 1854

Pennisetum pennisetiforme (Hochst. & Steud.) Wipff, Sida 19(3): 527. 2001.

Cenchrus aequiglumis Chiov., Agron. Colon. 20: 108. 1926. Type: Africa “Flora Somalia Transjuliense. raccolto dal Dr. Pompeo Gorini nel 1925.”

Pennisetum cenchroides Rich. var. *echinoides* Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 88–89. 1896

Cenchrus echinoides Wight ex Steud., Nomencl. Bot., ed. 2 (Steudel) 1: 317. 1840, nom. nud.

Cenchrus lappaceus Tausch, Flora 20: 97. 1837, nom. Later hom., non L., 1763

Type. Saudi Arabia: Jedda, in deserto prope oppid. Deschedda; January 28, 1836; *G.H.W. Schimper* 973 (P). LT designated by Wipff in Sida 19: 527. 2001.

Distribution. Bihar, Daman and Diu, Goa, Gujarat, Jammu and Kashmir, Maharashtra, Rajasthan, Tamil Nadu, Uttar Pradesh [Myanmar, Sri Lanka].

Habit. Annual or perennial.

627. *Cenchrus polystachios* (L.) Morrone, Ann. Bot. (Oxford) n.s., 106: 129. 2010

Panicum polystachion L., Syst. Nat., ed. 10. 2: 870. 1759. Type: “Habitat [in India.] Sp. Pl., ed. 2. 1: 82. 1762.” Lectotype: Herb. Linn. No. 80.4 (LINN). LT designated by van der Zon in Wageningen Agric. Univ. Pap. 92-1: 335. 1992.

- Pennisetum polystachion* (L.) Schult., Mant. 2 (Schultes) 146. 1824 (as “polystachyum”).
- Panicum barbatum* Roxb., Fl. Ind. (Carey & Wallich ed.) 1: 285. 1820, non Lam. 1791. Type: India: Collected from Sumatra and seed grown in Royal Botanical Garden, Calcutta.
- Panicum triticoides* Poir., Encycl. (Lamarck) Suppl. 4: 274. 1816. Type: “J’ignore le lieu natal de cette plante. (Herb. Desfontaine).”
- Pennisetum triticoides* (Poir.) Roem. & Schult., Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 877. 1817. Type: Herb. Desfontaine.
- Panicum densispica* Poir., Encycl. (Lamarck) Suppl. 4: 273. 1816, nom. superfl & illeg. for *P. cenchroides* A. Rich.
- Pennisetum pedicellatum* sensu Senaratna, Grasses of Ceylon (Perad. Man. No. 8) 155. 1956, non Trin., 1834
- Panicum cauda-ratti* Schumach., Kongel. Danske Vidensk. Selsk. Naturvidensk. Math. Afh. 3: 79. 1827. Type: Ghana; *Thonning s.n.*
- Pennisetum cauda-ratti* (Schumach.) Franch., Bull. Soc. Hist. Nat. Autun 8: 365. 1895
- Pennisetum amethystinum* P. Beauv., Ess. Agrostogr. 172 1812, nom. nud.
- Pennisetum setosum* (Sw.) Rich., Syn. Pl. (Persoon) 1: 72. 1805.
- Cenchrus setosus* Sw., Prodr. (Swartz) 26. 1788. Type: India orientalis; *Swartz s.n.* (S).
- Gymnotrix geniculata* Schult., Mant. 2 (Schultes) 284. 1824 (as “Gymnothrix”). Type: “In martinica, Hortul”; *D. Sieber s.n.*
- Panicum cenchroides* Rich., Actes Soc. Hist. Nat. Paris 1: 106. 1792. Type: French Guiana: “E Cayenna missarum a Domino Le Blond”; *LeBlond s.n.* (P).
- Setaria cenchroides* (Rich.) Roem. & Schult., Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 495. 1817.
- Panicum erubescens* Willd., Enum. Pl. (Willdenow) 2: 1031. 1809. Type: “Habitat in insula St. Thomae Americes.”
- Setaria erubescens* (Willd.) P. Beauv., Ess. Agrostogr. 169, 178. 1812
- Pennisetum flavescens* J. Presl in C. Presl, Reliq. Haenk. 1(4–5): 316. 1830. Type: “Habitat in Mexico.” Mexico; *Haenke s.n.* (PR)
- Pennisetum hamiltonii* Steud., Nomencl. Bot., ed. 2 (Steudel) 2: 297. 1841
- Pennisetum hirsutum* Nees, Fl. Bras. Enum. Pl. 2(1): 284. 1829
- Pennisetum nicaraguense* E. Fourn., Bull. Soc. Bot. France 27: 293. 1880. Type: Nicaragua: circa Granada; *P. Levy 1304* (P).
- Pennisetum pallidum* Nees, Fl. Bras. Enum. Pl. 2(1): 285. 1829. Type: Brasilia: “Habitat in apricis praeruptis graminibus parcis obsitis ad latera montium de Mentanha et Itambé, districtus adamantini, provinciae Minarum generalium”; *Martius s.n.* (M).
- Pennisetum purpurascens* Kunth, Nov. Gen. Sp. [H.B.K.] 1: 113 (ed. qto.). 1816. Type: “Crescit in aridis, devexis montis ignivomi Mexicani, Volcan de Jorullo, alt 420 hexapodarum.” Mexico: Volcán de Jorullo, alt. 420 ft.; *Humboldt & Bonpland s.n.* (P).
- Pennisetum richardii* Kunth, Révis. Gramin. 1: 49. 1829 (as “richardi”)

Pennisetum uniflorum Kunth, Nov. Gen. Sp. [H.B.K.] 1: 114 (ed. qto.). t. 34. 1816.

Type: "Crescit locis subtemperatis, planis Prov. Novae Andalusiae, juxta Cumana-coa"; *Humboldt & Humboldt s.n.*

Pennisetum alopecuroides Desv. ex Ham., Prodr. Pl. Ind. Occid. (Hamilton) 11. 1825, nom. later hom. & illeg., non (L.) Spreng., 1824.

Pennisetum erubescens (Willd.) Link, Hort. Berol. [Link] 1: 215. 1827, non Desv. ex Ham., 1825

Distribution. Andhra Pradesh, Assam, Bihar, Chhattisgarh, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Tamil Nadu, Uttar Pradesh, West Bengal [China].

Habit. Annual.

628. *Cenchrus prieurii* (Kunth) Maire, Bull. Mus. Natl. Hist. Nat, ser. 2, 3: 523. 1931 var. *prieurii* (as "prieuri")

Cenchrus macrostachyus Hochst. ex Steud., Syn. Pl. Glumac. 1: 109. 1854. Type: Sudan: Kurdofan, Ad Pagum Cordofanum Abu-Gerad in Collobus Arenosis; September 18, 1839; *K.G.T. Kotschy 4*

Pennisetum breviflorum Steud., Syn. Pl. Glumac. 1: 107. 1854. Type: "Leprieur legit in Senegambia"; *Leprieur s.n.*

Pennisetum prieurii Kunth, Révis. Gramin. 2: 411. t. 119. 1831. Type: "Crescit in senegambia, collibus arenosis"; *Leprieur s.n.*

Distribution. Punjab, Rajasthan, Uttar Pradesh [Pakistan].

Habit. Annual.

629. *Cenchrus prieurii* (Kunth) Maire var. *scabra* Bhandari, Fl. Ind. Desert 395. 1978

Type. India: Rajasthan, Jodhpur, Massuria; December 6, 1960; *M.M. Bhandari 793* (JAC).

Distribution. Rajasthan, Uttar Pradesh.

Habit. Annual.

Remarks. Record for Rajasthan fide Naithani (1990).

630. *Cenchrus purpureus* (Schumach.) Morrone, Ann. Bot. (Oxford) n.s., 196: 129. 2010

Pennisetum purpureum Schumach., Beskr. Guin. Pl. 44. 1827. Type: Ghana: Guinea; *Thonning 355* (C).

Gymnotrix nitens Andersson, Naturw. Reise Mossambique 552. 1864 (as “Gymnothrix”). Type: “Standort, Auf trocknen sandigen oder in der Nahe sumpfiger Wiesen der Halbinsel Cabaceira 15 S.B. Eingesammelt in Mai, auch an anderen orten ahnlichen Bodens vokommend.”

Pennisetum nitens (Andersson) Hack., Bol. Soc. Brot. 6: 142. 1888

Pennisetum benthamii Steud., Syn. Pl. Glumac. 1: 105. 1854 (as “benthami”). Type: “P. Macrostachyum Benth. in Hook. Nig. Fl. 563. (non Trin. 1834) Fernando Po, Guinea.”

Pennisetum flavicomum Leeke, Z. Naturwiss. 79: 45. 1907. Type: “Agyprischer Sudan: Kordofan.”

Pennisetum flexispica K. Schum., Pflanzenw. Ost-Afrikas C: 105. 1895. Type: “Si-Stuhl. Coll. I, n. 1099”.

Pennisetum pallescens Leeke, Z. Naturwiss. 79: 47. 1907. Type: “Westafrika: Togo”.

Pennisetum pruinsum Leeke, Z. Naturwiss. 79: 46. 1907. Type: Ostafrika, Einheimischer Name, “Magugu”

Pennisetum macrostachyum Benth., Niger Fl. 563. 1849, nom. Later hom. & illeg., non *Pennisetum macrostachys* (Brongn.) Trin., 1834

Distribution. Andhra Pradesh, Assam, Bihar, Delhi, Gujarat, Himachal Pradesh, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Rajasthan, Tamil Nadu, West Bengal [China].

Habit. Perennial.

631. *Cenchrus rajasthanensis* Kanodia & P.C. Nanda, Geobios (Jodhpur) 5(4): 157. f. 1. 1978

Distribution. Rajasthan.

Habit. Not recorded.

Remarks. Record for India fide Naithani (1990).

632. *Cenchrus ramosus* (Hochst.) Morrone, Ann. Bot. (Oxford) n.s., 106: 129. 2010

Gymnotrix ramosa Hochst., Flora 27: 252. 1844 (as “Gymnothrix”). Type: Aethiopica: Sennar Province; *Kotschy* 199.

Pennisetum ramosum (Hochst.) Schweinf., Beitr. Fl. Aethiop. 301. 1867.

Pennisetum arvense Pilg., Bot. Jahrb. Syst. 30: 119. 1901. Type: Ethiopia: “auf trockenen Bergrucken in der sonst sumpfigen Ebene, Dembea, 5800 ft.”; October 1863; *Schimper* 1399. Ethiopia: “in Sumpfen bei Hamedo” 4500 ft.; September 1862; *Schimper* 1058.

Pennisetum ovale Rupr. ex Steud., Syn. Pl. Glumac. 1: 104. 1854. Type: Ethiopia: Nubia; *Ruprecht. (In Kotschy fl. ath. 199)*

Distribution. India [also in Africa].

Habit. Annual.

Remarks. Distribution in India not recorded.

633. *Cenchrus setigerus* Vahl, Enum. Pl. (Vahl) 2: 395. 1805

Cenchrus biflorus sensu Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 89. 1896, non Roxb., 1820

Cenchrus bulbifer Hochst. ex Boiss., Fl. Orient. (Boissier) 5: 448. 1884, nom. nud. pro. syn.

Cenchrus uniflorus Ehrenb. ex Boiss., Fl. Orient. (Boissier) 5: 448. 1884, nom. nud. pro. syn.

Pennisetum vahlII Kunth, Révis. Gramin. 1: 49. 1829, nom. superfl. & illeg. for *Cenchrus setigerus* Vahl

Type. "Habitat in Arabia. Forskal." Saudi Arabia; *Forsskal s.n.* (C).

Distribution. Andhra Pradesh, Bihar, Chhattisgarh, Daman and Diu, Goa, Gujarat, Haryana, Jammu and Kashmir, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Punjab, Rajasthan, Tamil Nadu, Uttar Pradesh [China, Pakistan].

Habit. Perennial.

***Cyrtococcum* Stapf, Fl. Trop. Afr. [Oliver et al.] 9: 15. 1917, 9: 745. 1920**

Lectotype. *Cyrtococcum setigerum* (P. Beauv.) Stapf (*Panicum setigerum* P. Beauv.) LT designated by F. W. Gould in R. A. Howard, Fl. Lesser Antilles 3: 121. 1979.

634. *Cyrtococcum accrescens* (Trin.) Stapf, Hooker's Icon. Pl. 31: sub t. 3096. 1922

Panicum accrescens Trin., Sp. Gram. [Trinius] 1(8): t. 88. 1827. Type: "Figura ad specimen nepalense."

Cyrtococcum patens (L.) A. Camus var. *latifolium* (Honda) Ohwi, Acta Phytotax. Geobot. 11(1): 47–48. 1942.

Panicum patens L. f. *latifolium* Honda, Bot. Mag. (Tokyo) 37: 25. 1923. Type: China: Taiwan, Liukiu, Onnah; 1899; *K. Miyake s.n.*

Distribution. Andaman and Nicobar Islands, Assam, Karnataka, Maharashtra, Nagaland, Odish, Uttar Pradesh, Uttarakhand [China, Nepal].

Habit. Not recorded.

Remarks. Distribution in Karnataka, Nagaland, and Uttar Pradesh fide Naithani (1990).

635. *Cyrtococcum deccanense* Bor, Kew Bull. 1956: 255–256. 1956

Panicum patens sensu Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 57. 1896, non L., 1753

Type. Sri Lanka: Hakgala, gully near Botanical Garden; 6000 ft.; December 30, 1950; *F. Ballard 1341* (K).

Distribution. Karnataka, Kerala, Maharashtra, Tamil Nadu [Sri Lanka].

Habit. Annual.

Remarks. Records from Karnataka and Tamil Nadu fide Naithani (1990).

636. *Cyrtococcum longipes* (Wight & Arn. ex Hook. f.) A. Camus, Bull. Mus. Natl. Hist. Nat. 27: 118. 1921.

Panicum longipes Wight & Arn. ex Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 58. 1896. Syntypes: India: Nilghiri and Pulney Hills; *Heyne* (Numer. List [Wallich] no. 8741). *Wight & Arn* (*Wight Cat. no. 1638*). Karkun Ghar, alt. 2000 ft.; *Lawson s.n.* *Cyrtococcum patens* sensu Senaratna, Grasses of Ceylon (Perad. Man. No. 8) 120. 1956, non (L.) A. Camus, 1921

Distribution. Andhra Pradesh, Assam, Karnataka, Kerala, Sikkim, Tamil Nadu [Myanmar].

Habit. Perennial.

637. *Cyrtococcum oxyphyllum* (Hochst. ex Steud.) Stapf, Hooker's Icon. Pl. 31: sub t. 3096. 1922.

Panicum oxyphyllum Hochst. ex Steud., Syn. Pl. Glumac. 1: 65. 1853. Type: India: Canara; *R.F. Hohenacker 627*

Panicum hermaphroditum Steud., Syn. Pl. Glumac. 1: 67. 1853. Type: Philippines; *Cuming no. 554*

Panicum pilipes Nees & Arn. ex Buse, Pl. Jungh. 376. 1854. Type: “Habitat insulae Javae sylvas in sinu Wijnkoopsbaai, Junghuhn.” Indonesia: Java; *Cuming 554*

Distribution. Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Chhattisgarh, Goa, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Meghalaya, Mizoram, Nagaland, Odisha, Sikkim, Tamil Nadu, Tripura, West Bengal [Bhutan, China, Sri Lanka].

Habit. Annual.

638. *Cyrtococcum patens* (L.) A. Camus, Bull. Mus. Natl. Hist. Nat. 27: 118. 1921

Panicum patens L., Sp. Pl. 1: 58. 1753. Type: "Habitat in India; similis e Lusitania."

Lectotype: *Herb. Linn. No. 80.63* (LINN). LT designated by Mitra & Jain in Manilal (ed.), Bot. Hist. Hort. Malabaricus 151. 1980.

Panicum muricatum Retz., Observ. Bot. (Retzius) 4: 18. 1786–1787. Type: "Misit Cel. Koenig."

Cyrtococcum muricatum (Retz.) Bor, Grasses Burma, Ceylon, India and Pakistan. 291. 1960.

Panicum radicans Retz., Observ. Bot. (Retzius) 4: 18. 1786–1787. Type: "Ad Canton Lectum dadit Honor. Wennerberg." Neotype: Philippines: Luzon, Rizal, Manila; December, 1914; *F. Blanco 711*(L).

Cyrtococcum radicans (Retz.) Stapf, Hooker's Icon. Pl. 31: sub t. 3096. 1922

Panicum schmidtii Hack., Bot. Tidsskr. 24: 99. 1901. Type: Thailand: Tratpran, Kohchang Island, plains near Klong Munsé; 1899; *c.i. s.n.*

Cyrtococcum schmidtii (Hack.) Henrard, Blumea 3(3): 436. 1940.

Panicum carinatum J. Presl in C. Presl, Reliq. Haenk. 1(4–5): 309. 1830. Type: "Habitat in insula Luzonia ad Sorzogon." Philippine Islands: Luzon, Sorzogon; *Haenke s.n.* (PR)

Panicum obliquum Roth ex Roem. & Schult. Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 433. 1817

Distribution. Andaman and Nicobar Islands, Assam, Bihar, Karnataka, Kerala, Maharashtra, Manipur, Meghalaya, Odisha, Sikkim, Tamil Nadu, Tripura, Uttar Pradesh, Uttarakhand, West Bengal [Bangladesh, Bhutan, Myanmar, Nepal, Sri Lanka].

Habit. Perennial.

639. *Cyrtococcum trigonum* (Retz.) A. Camus, Bull. Mus. Natl. Hist. Nat. 27: 118. 1921

Panicum trigonum Retz., Observ. Bot. (Retzius) 3: 9. 1783. Type: India; *Koenig s.n.* (LD). "Specimina javanica melius conceniunt cum Rumph. quam cum Rheed. figura cujus folia longiora."

Panicum difforme Roth, Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 433. 1817. Type: India orientalis; "Roth, nov. plant. spec. mss" cited

Panicum patens sensu Burm. f., Fl. Ind. (N. L. Burman) 26. t. 10. f. 3. 1768, non L., 1753

Distribution. Andhra Pradesh, Bihar, Goa, Karnataka, Kerala, Maharashtra, Odisha, Tamil Nadu, West Bengal [Sri Lanka].

Habit. Perennial.

***Digitaria* Haller f., Hist. Stirp. Helv. 2: 244. 1768, nom. cons.**

Type. *Digitaria sanguinalis* (L.) Scopoli (*Panicum sanguinale* L.) (type cons.).

640. *Digitaria abludens* (Roem. & Schult.) Veldkamp, Blumea 21(1): 53–55 f. 11d. 12. 1973

Panicum abludens Roem. & Schult., Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 457. 1817. Type: India; Heyne s.n. (B). “Pancium paradoxum Roth, nov. plant. Spec. Ms. ..”

Digitaria granularis (Trin.) Henrard, Monogr. Digitaria 302. 1950

Paspalum granulare Trin. in Spreng., Neue Entdeck. Pflanzenk. 2: 47. 1821. Type: “Hab. In India Orientali.” Koenig sub *Milium setaceum* in Herb. Trin ex Herb. Banks ex Herb. Jacquin (LE).

Digitaria pedicellaris Prain, Bengal Pl. 2: 1182. 1903, nom. superfl.

Paspalum pedicellare Trin. ex Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 19. 1896, nom. superfl. for *Paspalum granulare* Trin.

Distribution. Andhra Pradesh, Bihar, Chhattisgarh, Gujarat, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Rajasthan, Tamil Nadu, Uttar Pradesh, Uttarakhand [Bhutan, China, Myanmar, Nepal, Pakistan].

Habit. Annual.

641. *Digitaria abyssinica* (Hochst. ex A. Rich.) Stapf, Bull. Misc. Inform. Kew 1907: 213. 1907

Panicum abyssinicum Hochst. ex A. Rich., Tent. Fl. Abyss. 2: 360. 1850–1851. Type: Ethiopia: “in fruticetis opacis ad radices septentrionales montis scholoda”; September 22, 1837; W. Schimper U. I. 1840 Sect. primo 82 (P).

Distribution. Tamil Nadu [Sri Lanka].

Habit. Perennial.

642. *Digitaria bicornis* (Lam.) Roem. & Schult., Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 470. 1817

Paspalum bicornis Lam., Tabl. Encycl. 1: 176. 1791. Type: “Lieu nat. l’Inde.” India; Sonnerat in Herb. Lamarck (P-LAM).

Panicum bicornis (Lam.) Kunth, Enum. Pl. (Kunth) 1: 83. 1833.

Digitaria barbata Willd., Enum. Pl. (Willdenow) 1: 91. 1809. Type: “Habitat in India Orientali”; Herb. Desvaux s.n. (P).

Digitaria rottleri Roem. & Schult., Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 471. 1817. Type: India; *Rottler s.n.*

Panicum heteranthum Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 16. 1896, non Link, 1827, nom illeg., later hom.

Panicum barbatum (Willd.) Kunth, Révis. Gramin. 1: 33. 1829, non Lam., 1791

Distribution. Andhra Pradesh, Bihar, Chhattisgarh, Himachal Pradesh, Karnataka, Kerala, Maharashtra, Manipur, Rajasthan, Tamil Nadu, Uttar Pradesh, Uttarakhand, West Bengal [China, Myanmar, Nepal, Pakistan, Sri Lanka].

Habit. Annual.

643. *Digitaria biformis* Willd., Enum. Pl. (Willdenow) 1: 92. 1809

Panicum biforme (Willd.) Kunth, Révis. Gramin. 1: 33. 1829.

Panicum sanguinale L. var. *biforme* (Willd.) Hack. ex T. Durand & Schinz, Consp. Fl. Afr. [T.A. Durand & H. Schinz] 5: 762. 1894

Type. “Habitat in insula Mauritii et Borboniae”; *Bory de St. Vincent* 47 (B-W-1652).

Distribution. Karnataka, Tamil Nadu, Uttar Pradesh, Uttarakhand [Pakistan].

Habit. Not recorded.

Remarks. The taxonomic editors note that this species could be synonymous with *D. bicornis* or *D. ciliaris*.

644. *Digitaria brownii* (Roem. & Schult.) Hughes, Bull. Misc. Inform. Kew 1923: 313. 1923

Panicum brownii Roem. & Schult., Syst. Veg., ed. 15 bis [Roemer & Schultes]. 2: 462. 1817, nom. nov. for *Panicum villosum* R. Br.

Panicum villosum R. Br., Prodr. Fl. Nov. Holland. 1: 192. 1810, nom. illeg., non Lam., 1791. Type: Australia: Keppel Bay; *R. Brown* 6119, p.p. (BM).

Distribution. Tamil Nadu [also in Australia, New Zealand].

Habit. Perennial.

Remarks. It is unclear if this species is naturalized in Tamil Nadu. Its native range is not recorded.

645. *Digitaria ciliaris* (Retz.) Koeler, Descr. Gram. (Koeler) 27. 1802

Panicum ciliare Retz., Observ. Bot. (Retzius) 4: 16. 1786–1787. Type: “E Java et China adtulit honor. Wennerberg.” China: Guangdong, Guangzhou; *Wennerberg s.n.* (LD).

Paspalum sanguinale (L.) Lam. var. *ciliare* (Retz.) Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 15. 1896

Paspalum sanguinale (L.) Lam. var. *rottleri* Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 16. 1896. Type: India; *Wight Herbarium no. 3032 and 3033*

Panicum adscendens Kunth, Nov. Gen. Sp. [H.B.K] 1: 97 (ed. qto.). 1816. Type: “Crescit in Nova Andalusia prope Cumanacoa (100 hexap.), in Peruvia ad maris littora prope Guayaquil et Santa; in Nova Hispania juxta Zelaya et Queretaro, alt. 950 hexap.” Lectotype: Peru [Ecuador]: Guayaquil; *Humboldt & Bonpland s.n.* (P). LT designated by Veldkamp in *Blumea* 21(1): 32. 1973.

Digitaria adscendens (Kunth) Henrard, *Blumea* 1(1): 92. 1934.

Digitaria adscendens (Kunth) Henrard var. *criniformis* Henrard, Monogr. *Digitaria* 999. 1950

Digitaria adscendens (Kunth) Henrard ssp. *chrysoblephara* (Fig. & De Not.) Henrard, Monogr. *Digitaria* 998. 1950.

Digitaria chrysoblephara Fig. & De Not., Mem. Reale Accad. Sci. Torino ser. 2, 14: 364. t. 27. 1854. Type: Africa: “In Nubia superiore ad Fazoge”; *Figari s.n.*(FI).

Digitaria marginata Link, Enum. Hort. Berol. Alt. 1: 102. 1821. Type: “Hab. in Brasilia.” Brazil; *Herb. Link* 67 (B (left side of sheet)).

Digitaria fimbriata Link, Hort. Berol. [Link] 1: 226. 1827. Type: “Hab. in Brasilia.” Brazil; *Herb. Link* 97 (B [right side of sheet]).

Digitaria marginata Link var. *fimbriata* (Link) Stapf, Fl. Trop. Afr. [Oliver et al.] 9: 440. 1919.

Distribution. Andhra Pradesh, Arunachal Pradesh, Bihar, Chhattisgarh, Gujarat, Jammu and Kashmir, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Nagaland, Odisha, Rajasthan, Tamil Nadu, Uttar Pradesh, Uttarakhand, West Bengal [China, Myanmar, Nepal, Pakistan].

Habit. Not recorded.

646. *Digitaria compacta* (Roth) Veldkamp, *Blumea* 21(1): 71. 1973

Paspalum compactum Roth, Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 316. 1817. Type: India orientalis; *Heyne s.n.* (B).

Digitaria cruciata (Nees) A. Camus var. *esculenta* Bor, *Webbia* 11: 353. 1955. Type: India: Khasia, Pomrang; September 15, 1850; *J.D. Hooker & T. Thomson s.n.* (K).

Distribution. Meghalaya, Uttar Pradesh.

Habit. Annual.

Remarks. Distribution in India fide Naithani (1990).

647. *Digitaria cruciata* (Nees) E.G. Camus & A. Camus, Fl. Indo-Chine [P.H. Lecomte et al.] 7: 399. 1922 var. *cruciata*

Panicum cruciatum Nees, Syn. Pl. Glumac. (Steudel) 1: 39. 1854. Type: Nepal; *Royle Herb. no.* 28, 29.

Paspalum sanguinale (L.) Lam. var. *cruciatum* (Nees) Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 14. 1896

Distribution. Meghalaya, Rajasthan, Uttar Pradesh, Uttarakhand [Bhutan, China, Mynamar, Nepal, Pakistan].

Habit. Annual.

648. *Digitaria cruciata* (Nees) A. Camus var. *pectinata* Veldkamp, Blumea 21(1): 72. 1973

Type. India; *Griffith KD 6574* (W).

Distribution. Meghalaya, Rajasthan, Uttar Pradesh [Nepal].

Habit. Not recorded.

Remarks. Record for Meghalaya fide Naithani (1990).

649. *Digitaria duthieana* Henrard ex Bor, Kew Bull. 1953: 273. 1953

Type. India: Madhya Pradesh, Bandelkhand, Barwar Sagor, near Jhansi; December 9, 1886; *J.F. Duthie s.n.* (K).

Distribution. Madhya Pradesh, Uttar Pradesh.

Habit. Perennial.

Remarks. Record for Madhya Pradesh fide Naithani (1990).

650. *Digitaria eriantha* Steud., Flora 12(2): 468–469. 1829.

Digitaria pentzii Stent, Bothalia 3(1): 147. 1930. Type: Cape Province, Vrijburg District, Vrijburg; *Pentz N.H.P. 8510* (PRE).

Digitaria eriantha Steud. var. *stolonifera* Stapf, Fl. Cap. (Harvey) 7: 375. 1898. Type: South Africa: Transvaal, Houtbosch; *A. Rehmann 5712* (K, L). LT designated (as type) by Henrard in Monogr. Digitaria 232. 1950.

Type. South Africa: Cape: Cape of Good Hope, *von Ludwig s.n.*

Distribution. Maharashtra [also in Africa].

Habit. Perennial.

Remarks. Possibly only in cultivation.

651. *Digitaria fuscescens* (J. Presl) Henrard, Meded. Rijks-Herb. 61: 8. 1930

Paspalum fuscescens J. Presl in C. Presl, Reliq. Haenk. 1(4–5): 213. 1830. Type: “Hab. in regione montana Peruviae” (changed to Hab. ad Monte-Rey Californiae, in the Addendum on p. 351); *Haenke s.n.* (PR).

Syntherisma fuscescens (J. Presl) Scribn., Rep. (Annual) Missouri Bot. Gard. 10: 49, t. 10. 1899

Digitaria pseudoischaemum Buse, Pl. Jungh. 382. 1854 (as “pseudo-ischaemum”). Type: “Habitat in sumatrae littoralibus arenosis. Inter stirpes Ischaemi multici, cui Sterilis quodammodo similes est, offendi unicum specimen.” *Junghuhn s.n.*

Distribution. Manipur, Nagaland, Tamil Nadu [Bhutan, Myanmar, Sri Lanka].

Habit. Annual.

652. *Digitaria griffithii* (Hook. f.) Henrard, Blumea 1(1): 100. 1934

Paspalum sanguinale (L.) Lam. var. *griffithii* Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 15. 1896. Type: Cited many syntypes.

Panicum corymbosum sensu Thwaites, Enum. Pl. Zeyl. (Thwaites). 436. 1864, non Roxb., 1820

Distribution. Karnataka, Kerala, Tamil Nadu, Uttarakhand [Sri Lanka].

Habit. Perennial.

653. *Digitaria ischaemum* (Schreb.) Muhl., Cat. Pl. Amer. Sept. 9. 1813

Panicum ischaemum Schreb. in Schweigg., Spec. Fl. Erlang. 16. 1804. Type: Germany, Bavaria

Syntherisma ischaemum (Schreb.) Nash, N. Amer. Fl. 17(2): 151. 1912

Digitaria humifusa Pers., Syn. Pl. (Persoon) 1: 85. 1805. Type: “Hab. In arenosis circa Parisios.”

Panicum humifusum (Pers.) Kunth, Révis. Gramin. 1: 33. 1829

Syntherisma humifusum (Pers.) Rydb., Mem. New York Bot. Gard. 1: 469. 1900

Paspalum ambiguum Lam. & DC., Fl. Franc. (DC. & Lamarck), ed. 3. 3: 16. 1805. Type: cited *Paspalum dactylon* Lam.

Digitaria ischaemum (Schreb.) Muhl., Descr. Gram. (Muhlenberg) 131. 1817, isonym

Distribution. India (Northwest Himalaya) [China, Pakistan].

Habit. Annual.

Remarks. Distribution in India not recorded.

654. *Digitaria jubata* (Griseb.) Henrard, Blumea 1(1): 100. 1934

Paspalum jubatum Griseb., Nachr. Königl. Ges. Wiss. Georg-Augusts-Univ. 84. 1868.

Type: India: Khasya Hills, 7000 ft.; *J.D. Hooker Paspalum no. 9* (GOET).

Distribution. Assam, Meghalaya [China].

Habit. Annual.

655. *Digitaria longiflora* (Retz.) Pers., Syn. Pl. (Persoon) 1: 85. 1805

Paspalum longiflorum Retz., Observ. Bot. (Retzius) 4: 15. 1786–1787. Type: “E Malabar, ubi ad margines agrorum crescit, misit hon. Koenig.”

Panicum longiflorum (Retz.) J.F. Gmel., Syst. Nat., ed 13 [bis] 2: 158. 1791

Syntherisma longiflora (Retz.) Skeels, U.S.D.A. Bur. Pl. Industr. Bull. 261: 30. 1912

Digitaria caespitosa Ridl., Fl. Malay. Penin. 5: 215. 1925. Lectotype: Malay Peninsula: Singapore, Tanglin, grass plots in the gardens; *Ridley s.n.* (K). LT designated by Veldkamp, Blumea 21: 64. 1973.

Panicum propinquum R. Br., Prodr. Fl. Nov. Holland. 1: 193. 1810. Type: Australia: “Littora Novae Hollandiae intra tropicum”; *R. Brown 6122* (BM).

Digitaria propinqua (R. Br.) P. Beauv., Ess. Agrostogr. 160, 170. 1812

Digitaria roxburghii Spreng., Syst. Veg. (ed. 16) [Sprengel] 1: 270. 1824 (“1825”).

Type: India orientalis

Paspalum brevifolium Fluegge, Gram. Monogr., Paspalum 150. 1810 (as “*Paspalus brevifolius*”), nom. superfl. & illeg. Syntypes: “In malabar, ad agrorum margines; *Koenig s.n.* Insula Mauritii; *Dupetit Thouars s.n.* Tranqubaria; *Klein s.n.*”

Paspalum filiculme Nees in Herb. Wight ex Miq., Prolus. Fl. Jap. 162. 1867

Digitaria filiculmis (Nees) Ohwi, Acta Phytotax. Geobot. 11(1): 32. 1942, in obs.

Paspalum preslii Kunth, Enum. Pl. (Kunth) 1: 47. 1833. Type: Peruvia

Digitaria preslii (Kunth) Henrard, Monogr. Digitaria 589. 1950

Panicum pseudodurva Nees, Fl. Afr. Austral. Ill. 1: 21. 1841 (as “pseudo-durva”)

Panicum parvulum Trin., Mém. Acad. Imp. Sci. Saint-Pétersbourg, Sér. 6, Sci. Math., Seconde Pt. Sci. Nat. 3, 1(2–3): 205. 1834, nom. superfl. & illeg. for *Paspalum longiflorum* Retz.

Distribution. Andhra Pradesh, Bihar, Chhattisgarh, Gujarat, Jammu and Kashmir, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Meghalaya, Odisha, Rajasthan, Tamil Nadu, Uttarakhand, West Bengal [Bhutan, China, Myanmar, Nepal, Pakistan, Sri Lanka].

Habit. Annual.

656. *Digitaria nodosa* Parl., Pl. Nov. 39. 1842

Syntherisma nodosa (Parl.) Newbold, *Torreyia* 24: 9. 1924

Panicum commutatum Nees var. *nodosum* (Parl.) Hack. ex T. Durand & Schinz, *Consp. Fl. Afr.* [T.A. Durand & H. Schinz] 5: 744. 1894

Panicum pabulare Aitch. & Hemsl., *J. Linn. Soc., Bot.* 19: 190. 1882. Type: Afghanistan: Kuram District, between Thal and Chapri, also on Tor-ghar Hill

Paspalum sanguinale (L.) Lam. var. *pabulare* (Aitch. & Hemsl.) Hook. f., *Fl. Brit. India* (J.D. Hooker). 7(21): 15. 1896

Panicum parlatoresi Steud., *Syn. Pl. Glumac.* 1: 40. 1854. Type: “Ins. Canar., *Parlatore Pl. nov.* 39”

Type. “Habitat in arvis insulae Canariae.”

Distribution. Punjab [Afghanistan, Pakistan].

Habit. Not recorded.

657. *Digitaria pennata* (Hochst.) T. Cooke, Fl. Bombay 2(5): 941. 1908 var. *pennata*

Panicum pennatum Hochst., *Flora* 38: 197. 1855. Type: Abyssinia[Ethiopia]: Gurrsarfa; 1853; *Schimper [Hb. abyss. Buch.]* 1497 (STR).

Paspalum pennatum (Hochst.) Hook. f., *Fl. Brit. India* (J.D. Hooker). 7(21): 16. 1896

Distribution. Gujarat, Maharashtra, Rajasthan [Pakistan].

Habit. Perennial.

658. *Digitaria pennata* (Hochst.) T. Cooke var. *shettyana* R.P. Pandey, Parmar & B.L. Vyas, J. Econ. Taxon. Bot. 5(2): 475. 1984

Type. India: Rajasthan, Jalore, rocky habitat near Sareh Mandir; September 21, 1978; B. V. Shetty 6659A (CAL).

Distribution. Rajasthan.

Habit. Perennial.

Remarks. Record for India fide Naithani (1990).

659. *Digitaria radicata* (J. Presl) Miq., Fl. Ind. Bat. 3: 437. 1857

Panicum radicosum J. Presl in C. Presl, *Reliq. Haenk.* 1(4–5): 297. 1830. Type: “Habitat ad Sorzogon Luzoniae.” Philippine Islands: Luzon, Sorsogon Province; *Haenke s.n.* (PR?).

Panicum timorense Kunth, *Enum. Pl.* (Kunth) 1: 83. 1833

Digitaria timorensis (Kunth) Balansa, J. Bot. (Morot) 4: 138. 1890. (See Remarks below.)

Panicum debile Desf., Fl. Atlant. 1: 59–60. 1798. Type: Algeria: in pascuis prope La Calle; *Desfontaines* 127 (P).

Paspalum sanguinale (L.) Lam. var. *debile* (Desf.) Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 16. 1896

Distribution. Andhra Pradesh, Bihar, Chhattisgarh, Gujarat, Jammu and Kashmir, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Meghalaya, Odisha, Rajasthan, Tamil Nadu, Uttarakhand, West Bengal [China, Myanmar, Nepal, Pakistan].

Habit. Annual.

Remarks. *Digitaria timorensis* (Kunth) Balansa placed in synonymy here, but it is unclear where this name falls within *Digitaria*.

660. *Digitaria sanguinalis* (L.) Scop., Fl. Carniol., ed. 2. 1: 52. 1771

Panicum sanguinale L., Sp. Pl. 1: 57. 1753. Type: “Habitat in America, Europa australi.” Lectotype: *Herb. Linn. No. 80.31*(LINN). LT designated by Henrard in Monogr. *Digitaria* 649. 1950.

Paspalum sanguinale (L.) Lam., Tabl. Encycl. 1: 176. 1791

Digitaria sanguinalis (L.) Scop. var. *frumentacea* Henrard, Monogr. *Digitaria* 985. 1950. Type: Cultivated.

Digitaria sanguinalis (L.) Scop. var. *rottleriana* Henrard, Monogr. *Digitaria* 986. 1950. Type: South Africa: Cape Province, Cape town, in gardens Johannesburg and India.

Distribution. Andhra Pradesh, Bihar, Gujarat, Jharkhand, Jammu and Kashmir, Karnataka, Kerala, Punjab, Rajasthan, Uttar Pradesh [China, Pakistan]. Naturalized. Native range not recorded.

Habit. Annual.

661. *Digitaria setigera* Roth, Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 474. 1817

Digitaria setigera Roth var. *calliblepharata* (Henrard) Veldkamp, Blumea 21(1): 40. 1973

Panicum corymbosum Roxb., Fl. Ind. (Carey & Wallich ed.) 1: 295. 1820. Type: India: in the vallies amongst the Circar Mountains; *Roxburgh s.n.*

Axonopus corymbosus (Roxb.) Schult., Mant. 2 (Schultes) 177. 1824

Digitaria corymbosa (Roxb.) Merr., Enum. Philipp. Fl. Pl. 1: 53. 1923

Syntherisma corymbosa (Roxb.) Hosok., Trans. Nat. Hist. Soc. Formosa 24(130): 199. 1934

Panicum microbachne J. Presl in C. Presl, Reliq. Haenk. 1: 298. 1830. Lectotype: Philippine Islands: Luzon; *Haenke s.n.* (right- and left-hand specimens) (PR) (vide Henrard, Monogr. Digitaria 450. 1950).

Digitaria microbachne (J. Presl) Henrard, Meded. Rijks-Herb. 61: 13. 1930

Digitaria microbachne (J. Presl) Henrard ssp. *calliblepharata* Henrard, Monogr. Digitaria 452. 1950. Syntypes: Indonesia: Kangean, Kajoe Waroe; 1920; *Backer 27997* (L). Java: Soerabaja; September 30, 1928; *Van Slooten 2047*

Panicum dilatatum Steud., Syn. Pl. Glumac. 1: 39. 1854. Type: India Courtallum; *Wight 1045, 1047*

Panicum pruriens Trin., Gram. Panic. [Trinius] 77. 1826. Lectotype: Hawaii: Nukahiwa Island; *G.H. von Langsdorff s.n.* LT designated by Veldkamp in Blumea 21(1): 38. 1973.

Paspalum sanguinale (L.) Lam. var. *pruriens* (Trin.) Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 15. 1896

Paspalum sanguinale (L.) Lam. var. *extensum* Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 15. 1896. Type: *Wight Cat. no. 2340*

Digitaria extensa (Hook. f.) Henrard, Blumea 1(1): 100. 1934

Type. India; *Heyne s.n.*

Distribution. Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Chhattisgarh, Delhi, Gujarat, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Nagaland, Odisha, Punjab, Rajasthan, Sikkim, Tamil Nadu, Uttar Pradesh, Uttarakhand, West Bengal [Bangladesh, Bhutan, China, Myanmar, Nepal, Pakistan].

Habit. Annual.

662. *Digitaria stewartiana* Bor, Kew Bull. 1951: 166–167. 1951

Type. India: Kashmir, Chunagund, near Kargil, Ladak, 10000 ft.; August 25, 1940; *R.R. Stewart 21047* (K).

Distribution. Jammu and Kashmir, Ladak [China, Pakistan].

Habit. Annual.

Remarks. Report from Ladak fide Naithani (1990).

663. *Digitaria stricta* Roth, Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 474. 1817 var. *stricta*

Setaria stricta (Roth) Kunth, Révis. Gramin. 1: 47. 1829

Digitaria stricta Roth var. *denudata* (Link) Henrard, Monogr. Digitaria 175. 1950

Digitaria stricta Roth var. *glabrescens* Bor, Webbia 11: 336. 1955. Syntypes: India: Khasia; *J.D. Hooker & T. Thomson s.n.* Tehri Garhwal, Jumma Valley, alt. 5800 ft.;

September 3, 1883; *J.F. Duthie* 325. Dehra Dun, Ramgarh; September 1892; *J.S. Gamble* 23932.

Agrostis pilosa Retz., *Observ. Bot. (Retzius)* 6: 22. 1791. Type: "Ex India orientali mista." India; *Koenig s.n.* (LD).

Digitaria denudata Link, *Hort. Berol. [Link]* 1: 222. 1827

Panicum denudatum (Link) Kunth, *Révis. Gramin.* 1: 32. 1829

Digitaria puberula Link, *Hort. Berol. [Link]* 1: 223. 1827

Panicum pseudosetaria Steud., *Syn. Pl. Glumac.* 1: 39. 1854 for *Digitaria stricta* Roth. Type: India

Syntherisma royleana Newbold, *Torreyia* 24: 9. 1924, nom. superfl.

Digitaria royleana Prain, *Bengal Pl.* 2: 1182. 1903, nom. superfl. & illeg. for *Digitaria puberula*

Paspalum royleanum Nees ex Hook. f., *Fl. Brit. India (J.D. Hooker)*. 7(21): 18. 1896, nom. superfl. & illeg. for *Digitaria puberula*

Type. India; *B. Heyne s.n.*

Distribution. Andhra Pradesh, Bihar, Chhattisgarh, Goa, Karnataka, Madhya Pradesh, Maharashtra, Odisha, Rajasthan, Uttar Pradesh, Uttarakhand [Bhutan, China, Myanmar, Nepal, Pakistan, Sri Lanka].

Habit. Annual.

664. *Digitaria ternata* (Hochst. ex A. Rich.) Stapf, *Fl. Cap. (Harvey)* 7: 376–377. 1898

Cynodon ternatus Hochst. ex A. Rich., *Tent. Fl. Abyss.* 2: 405. 1850–1851. Type: "Crescit in arvis Poae Abyssinicae cultis, prope Adoua (Quartin Dillon, Schimper)"; Ethiopia: Tigray; September 23, 1837; *Schimper* 76 (P). LT designated (as "type") by Henrard, *Monogr. Digitaria* 738. 1950.

Panicum ternatum (Hochst. ex A. Rich.) Hochst. ex Steud., *Syn. Pl. Glumac.* 1: 40. 1853

Paspalum ternatum (Hochst. ex A. Rich.) Hook. f., *Fl. Brit. India (J.D. Hooker)*. 7(21): 17. 1896

Syntherisma ternata (Hochst. ex A. Rich.) Newbold, *Torreyia* 24: 9. 1924

Panicum phaeocarpum Nees var. *gracile* Nees, *Fl. Afr. Austral. Ill.* 23. 1841. Type: "In graminosis vallis ad Gekau alt. 800–1000 ft."

Distribution. Andhra Pradesh, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Meghalaya, Nagaland, Sikkim, Tamil Nadu, Uttar Pradesh, West Bengal [Bhutan, China, Myanmar, Nepal].

Habit. Annual.

665. *Digitaria tomentosa* (J. Koenig ex Rottler) Henrard, Blumea 1(1): 100. 1934

Milium tomentosum J. Koenig ex Rottler, Ges. Naturf. Freunde Berlin Neue Schriften 4: 220. 1803. Type: “Intra fissures rupium in monte Wandiwash.”

Panicum subeglume Trin., Mém. Acad. Imp. Sci. Saint-Petersbourg, Sér. 6, Sci. Math., Seconde Pt. Sci. Nat. 3, 1(2–3): 292. 1834

Milium capillare Roth ex Roem. & Schult., Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 320. 1817, non Rottb., 1778. Type: India orientali; *B. Heyne s.n.*

Distribution. Andhra Pradesh, Karnataka, Tamil Nadu [China, Sri Lanka].

Habit. Perennial.

666. *Digitaria violascens* Link, Hort. Berol. [Link] 1: 229. 1827

Paspalum fuscum J. Presl in C. Presl, Reliq. Haenk. 1(4–5): 214. 1830. Type: Hab. in Luzonia? in Peruviae montanis huanoccensibus? Mexico? Mexico; *Haenke s.n.* (PR).

Syntherisma fusca (J. Presl) Scribn., Rep. (Annual) Missouri Bot. Gard. 10: 49, t. 11. 1899

Digitaria fusca (J. Presl) Merr., Philipp. J. Sci. 35: 4. 1928, non Chiov., 1919

Digitaria chinensis (Nees) A. Camus, Notul. Syst. (Paris) 4: 48. 1923, non Horneman, 1819

Type. “Hab. in Brasilia.” Brazil; *Herb. Link 93* (B).

Distribution. Assam, Karnataka, Kerala, Maharashtra, Meghalaya, Odisha, Tamil Nadu, Uttar Pradesh, West Bengal [Bhutan, China, Myanmar, Nepal, Pakistan, Sri Lanka].

Habit. Annual.

667. *Digitaria wallichiana* (Wight & Arn. ex Nees) Stapf, Fl. Trop. Afr. [Oliver et al.] 9: 436. 1919

Panicum wallichianum Wight & Arn. ex Nees, Syn. Pl. Glumac. (Steudel) 1: 41. 1853. Type: India; *Wight Cat. 1607* (KD 3089) (P).

Panicum multibrachiatum Hochst. ex Steud., Syn. Pl. Glumac. 1: 74. 1853. Type: India; Nilgiri Mountains; *R.F. Hohenacker 916*

Paspalum perrottetii Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 20. 1896, non *Panicum perrottetii* Kunth, 1833 (vide Bor 1960).

Distribution. Karnataka, Kerala, Tamil Nadu [Sri Lanka].

Habit. Perennial.

***Echinochloa* P. Beauv., Essai Agrostogr. 53. 1812, nom. cons.**

Type. *Echinochloa crus-galli* (L.) P. Beauv. (*Panicum crus-galli* L.)

668. *Echinochloa colona* (L.) Link, Hort. Berol. [Link] 2: 209. 1833

Panicum colonum L., Syst. Nat., ed. 10. 2: 870. 1759. Type: "Habitat [in Indiae cultis.] Sp. Pl., ed. 2. 1: 84. 1753." Lectotype: Browne, Herb. Linn. No. 80.23 (LINN). LT designated by Hitchcock in Contr. U. S. Natl. Herb. 12: 119. 1908.

Milium colonum (L.) Moench, Methodus (Moench) 202. 1794

Oplismenus colonus (L.) Kunth, Nov. Gen. Sp. [H.B.K.] 1: 108–109 (ed. qto.). 1816

Echinochloa crus-galli (L.) P. Beauv. ssp. *colona* (L.) Honda, Bot. Mag. (Tokyo) 37: 122. 1923

Panicum crus-galli L. ssp. *colonus* (L.) Makino & Nemoto, Fl. Japan (Makino & Nemoto) 1470. 1925

Panicum crus-galli L. var. *minor* Thwaites, Enum. Pl. Zeyl. (Thwaites). 359. 1864. Type: Ceylon Plant 901

Panicum zonale Guss., Fl. Sic. Prodr. 1: 82. 1827. Type: "Habitus praecedentis sed gracilior, spiculae minus hispidae, antherae sordide purpureae, stigmata nigricantia."

Echinochloa zonalis (Guss.) Parl., Fl. Panorm. 1: 119. 1839

Oplismenus repens J. Presl in C. Presl, Reliq. Haenk. 1(4–5): 321. 1830. Type: "Habitat in Mexico." Mexico; *Haenke s.n.* (PR).

Panicum prorepens Steud., Syn. Pl. Glumac. 1: 46. 1853

Distribution. Andaman and Nicobar Islands, Andhra Pradesh, Arunachal Pradesh, Bihar, Chhattisgarh, Goa, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Odisha, Rajasthan, Tamil Nadu, Tripura, Uttar Pradesh [China, Pakistan].

Habit. Annual.

669. *Echinochloa crus-galli* (L.) P. Beauv., Ess. Agrostogr. 161, 169. 1812 var. *crus-galli*

Panicum crus-galli L., Sp. Pl. 1: 56. 1753 (as "crus galli"). Type: "Habitat in Europae, Virginiae cultis." Lectotype: *Kalm, Herb. Linn. No. 80.18* (LINN). LT designated by Hitchcock in Contr. U. S. Natl. Herb. 12: 117. 1908.

Milium crus-galli (L.) Moench, Methodus (Moench) 202. 1794

Pennisetum crus-galli (L.) Baumg., Enum. Stirp. Transsilv. 3: 277. 1817

Echinochloa crus-galli (L.) P. Beauv. var. *submutica* Neill., Fl. Nied.-Oesterr 2: 31. 1859 (as "submuticum"). Type: *Echinochloa crus-galli* Rchb. Icon. 9. f. 1411

Echinochloa glabrescens Munro ex Eggel., Ann. List. Gram. Uganda 16. 1947, non Murno ex Hook. f. 1896

Panicum hispidulum Retz., *Observ. Bot.* (Retzius) 5: 18. 1788 (“1789”). Type: “Ex India Orientali misit honor. Koenig.”

Echinochloa hispidula (Retz.) Nees, *Ill. Bot. Himal. Mts.* 1: 416, 420. 1840

Panicum crus-galli L. var. *stagninum* Trimen ex Hook. f. in Trimen, *Handb. Fl. Ceylon* 5: 136. 1900, non *Panicum stagninum* Retz., 1788 [Trimen in *Handb. Fl. Ceylon* published it as com. nov.]

Panicum grossum Salisb., *Prodr. Stirp. Chap. Allerton* 18. 1796, nom. superfl. & illeg.

Distribution. Andaman and Nicobar Islands, Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Delhi, Goa, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Odisha, Rajasthan, Tamil Nadu, Tripura, Uttar Pradesh, Uttarakhand [China, Nepal, Sri Lanka].

Habit. Annual.

670. *Echinochloa crus-pavonis* (Kunth) Schult., *Mant.* 2 (Schultes) 269. 1824

Oplismenus crus-pavonis Kunth, *Nov. Gen. Sp.* [H.B.K.] 1: 108 (ed. qto.). 1816. Type: “Crescit in apricis calidissimis Procinciae Cumanensis prope Bordones.”

Echinochloa composita J. Presl ex Nees, *Fl. Bras. Enum. Pl.* 2(1): 259. 1829 [cited as synonym of *E. crus-pavonis*]. Type: “Habitat in sylvis ad Almada et Ferradas provinciae Bahiensis, aliisque in locis Brasiliae”; *Haencker s.n.* (B).

Oplismenus angustifolius E. Fourn., *Mexic. Pl.* 2: 40. 1886. Type: Mexico: Veracruz; August; *Gouin 54* (P).

Oplismenus jamaicensis Kunth, *Enum. Pl. (Kunth)* 1: 147. 1833. Type: Jamaica

Panicum jamaicense (Kunth) Steud., *Nomencl. Bot.*, ed. 2 (Steudel) 2: 257. 1841

Panicum sabulicolum Nees, *Fl. Bras. Enum. Pl.* 2(1): 258. 1829. Type: “Habitat in arenosis Parae; *Sieber s.n.*” Uruguay: Montevideo; *Sellow s.n.*

Oplismenus sabulicolus (Nees) Kunth, *Enum. Pl. (Kunth)* 1: 145. 1833 (as “sabulicola”)

Panicum aristatum MacFad., *Bot. Misc.* 2: 115. 1831, non Retz., 1786–1787

Distribution. Andaman and Nicobar Islands, Uttar Pradesh, Uttarakhand [China].

Habit. Perennial.

671. *Echinochloa frumentacea* Link, *Hort. Berol.* [Link] 1: 204. 1827

Echinochloa colona (L.) Link var. *frumentacea* (Link) Ridl., *Fl. Malay. Penin.* 5: 223. 1925

Oplismenus frumentaceus (Link) Kunth, *Révis. Gramin.* 1: 45. 1829

Panicum crusgalli L. var. *frumentacea* (Link) Trimen, *Syst. Cat. Fl. Pl. Ceylon* 104. 1885 (as “frumentaceum”)

Panicum frumentaceum Roxb., *Fl. Ind.* (Carey and Wallich ed.) 1: 307. 1820, non Salisb., 1796. Type: “This I have only found in a state of cultivation, ..”

Type. India; Cultivated.

Distribution. Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Daman and Diu, Delhi, Goa, Jammu and Kashmir, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Meghalaya, Odisha, Rajasthan, Sikkim, Tamil Nadu, Uttar Pradesh, Uttarakhand, West Bengal [also in Asia, Africa, and introduced to America].

Habit. Annual.

672. *Echinochloa glabrescens* Munro ex Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 31. 1896

Type. Western Himalaya, Khasia Hills; Numer. List [Wallich] no. 8687.

Distribution. Karnataka, Meghalaya, Rajasthan, Tamil Nadu [Afghanistan, Bhutan, China, Nepal, Pakistan; Africa].

Habit. Not recorded.

673. *Echinochloa oryzoides* (Ard.) Fritsch, Verh. K. K. Zool.-Bot. Ges. Wien 41: 742. 1891

Panicum oryzoides Ard., Animadv. Bot. Spec. Alt. 16. t. 5. 1764. Type: "Semina hujus Panici inventa a me fuere inter Oryzam."

Distribution. Jammu and Kashmir, Tamil Nadu [China, Pakistan].

Habit. Annual.

Remarks. Record for Jammu and Kashmir fide Naithani (1990).

674. *Echinochloa picta* (J. Koenig) P.W. Michael, Philipp. Weed J. Sci. 5: 18. 1978

Panicum pictum J. Koenig, Naturforscher (Halle) 23: 204. 1788. Type: India: Calcutta; J. Koenig s.n.

Distribution. Karnataka, Tamil Nadu [China].

Habit. Perennial.

675. *Echinochloa pyramidalis* (Lam.) Hitchc. & Chase, Contr. U. S. Natl. Herb. 18: 345. 1917

Panicum pyramidale Lam., Tabl. Encycl. 1: 171. 1791. Type: "Lieu nat. le Senegal. Bdles courtes, Blanchatres." Senegal: E. Senegal; 1789; D. Roussillon s.n. (P-LAM).
Panicum atroviolaceum A. Rich., Tent. Fl. Abyss. 2: 368. 1850–1851. Type: "Crescit in Abyssinia sine locali indicatione; Antoine Petit s.n." (P).

Panicum quadrifarium Hochst. ex A. Rich., Tent. Fl. Abyss. 2: 367. 1850–1851. Type: “Crescit ad marginem stagnorum et in locis paludosis prope Adoua, mensibus Novembre et Decembre.” Syntypes: Ethiopia: Tigre, Adoua; December 1, 1837; *Schimper* 206 (P). Ethiopia: Adoua, *Quartin Dillon s.n.* (P).

Distribution. Karnataka [also in Saudi Arabia, Africa, Australasia, North America, South America].

Habit. Perennial.

676. *Echinochloa stagnina* (Retz.) P. Beauv., Ess. Agrostogr. 161, 171. 1812

Panicum stagninum Retz., Observ. Bot. (Retzius) 5: 17. 1788 (“1789”). Type: ‘Habitat in stagnis Indiae Orientalis, D. Koenig.’ India; *Koenig s.n.* (LD).

Panicum crus-galli sensu Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 30. 1896, non L. 1753

Distribution. Andaman and Nicobar Islands, Andhra Pradesh, Assam, Bihar, Chhattisgarh, Karnataka, Kerala, Gujarat, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Rajasthan, Tamil Nadu, Tripura [Pakistan, Sri Lanka].

Habit. Perennial.

***Eriochloa* Kunth, Nov. Gen. Sp. [H.B.K.] 1: 94 (ed. qto.). t. 30. 31. 1816**

Lectotype. *Eriochloa distachya* Kunth. LT designated by G.V. Nash in N. Amer. Fl. 17: 157. 1912; affirmed by Hitchcock, Bull. U.S.D.A. 772: 220. 1920.

677. *Eriochloa fatmensis* (Hochst. & Steud.) Clayton, Kew Bull. 30(1): 108. 1975

Panicum fatmense Hochst. & Steud., Unio Itin. Schimper 806. 1837. Type: Arabia: Mecca; *Schimper* 806 (K).

Eriochloa decumbens F.M. Bailey, Queensland Agric. J. 1: 234. 1897. Type: “Habitat on rocks, Hammond Island, Torres Strait. This grass differs from the other Australian species of the genus, principally in habit.”

Helopus nubicus Steud., Syn. Pl. Glumac. 1: 100. 1854. Type: Sudan: Arashcool; *Kotschy* 382 (K).

Eriochloa nubica (Steud.) Hack. & Stapf ex Thell., Vierteljahrsschr. Naturf. Ges. Zürich 64: 697. 1919, in obs.

Helopus acrotrichus Steud., Syn. Pl. Glumac. 1: 100. 1854, nom. superfl. & illeg. for *P. fatamense*

Eriochloa acrotricha Hack., Vierteljahrsschr. Naturf. Ges. Zürich 52: 435. 1907, non (Hook. f.) Schinz, 1906

Distribution. Maharashtra, Rajasthan [China, Myanmar, Sri Lanka].

Habit. Annual.

Remarks. Records for India fide Naithani (1990).

678. *Eriochloa procera* (Retz.) C.E. Hubb., Bull. Misc. Inform. Kew 1930: 256. 1930

Agrostis procera Retz., Observ. Bot. (Retzius) 4: 19. 1786–1787. Type: “In graminosis subhumidis Malabariae frequens; Koenig.”

Milium ramosum Retz., Observ. Bot. (Retzius) 6: 22. 1791. Type: “Ex India Orientali Habui.”

Agrostis ramosa (Retz.) Poir., Encycl. (Lamarck) Suppl. 1: 257. 1810

Eriochloa ramosa (Retz.) Kuntze, Revis. Gen. Pl. 2: 775. 1891

Eriochloa polystachya sensu Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 20. 1896, non H.B.K., 1816

Eriochloa annulata Kunth, Révis. Gramin. 1: 30. 1829, nom. superfl. & illeg.

Paspalum annulatum Fluegge, Gram. Monogr., Paspalum 133. 1810 (as “Paspalus annulatus”), nom. superfl. & illeg. for *Milium ramosum* Retz.

Distribution. Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Chhattisgarh, Dadra and Nagar Haveli, Delhi, Goa, Gujarat, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Nagaland, Odisha, Punjab, Rajasthan, Tamil Nadu, Uttar Pradesh, West Bengal [China, Myanmar, Nepal, Sri Lanka].

Habit. Annual.

***Holcolemma* Stapf & C.E. Hubb., Bull. Misc. Inform. Kew 1929: 244. 1929**

Type. *Holcolemma canaliculatum* (Nees) Stapf & C.E. Hubb. (*Panicum canaliculatum* Nees ex Steud.).

679. *Holcolemma canaliculatum* (Nees) Stapf & C.E. Hubb., Bull. Misc. Inform. Kew 1929: 246. 1929

Panicum canaliculatum Nees, Syn. Pl. Glumac. (Steudel) 1: 55. 1853. Type: India; Wright 1624 (P).

Hemigymnia canaliculata (Nees) Alston, Handb. Fl. Ceylon 6: 324. 1931

Panicum stenostachyum Thwaites, Enum. Pl. Zeyl. (Thwaites). 436. 1864. Type: Sri Lanka: Trincomalie; Rev S.O. Glemie Ceylon Plant 3845

Distribution. Tamil Nadu [Sri Lanka].

Habit. Perennial.

***Megathyrsus* (Pilg.) B.K. Simon & S.W.L. Jacobs, *Austrobaileya* 6(3):572. 2003**

Panicum subgen. *Megathyrsus* Pilg., Notizbl. Bot. Gart. Berlin-Dahlem 11: 242. 1931

Lectotype. *Megathyrsus maximus* (Jacq.) B.K. Simon & S.W.L. Jacobs (*Panicum maximum* Jacq.) Designated by Zuloaga, Grass Syst. Evol. 296. 1987.

680. *Megathyrsus maximus* (Jacq.) B.K. Simon & S.W.L. Jacobs, *Austrobaileya* 6(3): 572. 2003

Panicum maximum Jacq., Ic. Pl. Rar. 1: 2. t. 13. 1781. Type: West Indies: Lesser Antilles: Leeward Islands, Guadeloupe; *Herb. Jacquin s.n.* (W).

Urochloa maxima (Jacq.) R.D. Webster, Austral. Paniceae (Poaceae) 241. 1987

Panicum giganteum Mez, Bot. Jahrb. Syst. 34: 143. 1904, non Scheele, 1849

Panicum heynii Roth, Syst. Veg., ed. 15 bis [Roemer & Schultes]. 2: 458. 1817. Type: India; *Heyne s.n.*

Panicum hirsutissimum Steud., Syn. Pl. Glumac. 1: 72. 1853. Type: “In sylvis Krakakammae et ad flumen Zwartkopsrivier, alt. I (Uitenhage), (Ecklon), inter frutices ad flumen Zontagsrivier et Zoutpansnek alt. 1500–2000 et ad rivum ad Enon alt. 400, (Drege).”

Panicum maximum Jacq. var. *hirsutissimum* (Steud.) Oliv., Trans. Linn. Soc. London 29(3): 171. 1875

Panicum jumentorum Pers., Syn. Pl. (Persoon) 1: 83. 1805

Panicum laeve Lam., Tabl. Encycl. 1: 172. 1791. Type: Dominican Republic: Hispaniola Island; 1780; *E Domingo, ins. Franc.* (P-LAM).

Panicum maximum Jacq. ssp. *pubescens* M. Sharma, J. Econ. Taxon. Bot. 7(1): 106. f. 1. 1985. Type: India: Punjab, Patiala District, Rakhra; alt. 700 ft.; September 1, 1971; *M. Sharma* 2288 (PUN).

Panicum pamplemoussense Steud., Syn. Pl. Glumac. 1: 71. 1853. Type: “Urville legit ad Pamplemousse Ins. Mauriti.”

Panicum polygamum Sw., Prodr. (Swartz) 24. 1788, non Forssk., 1775. Type: India Orientali; *Brown* 366

Panicum sparsum Schumach., Beskr. Guin. Pl. 64. 1827

Distribution. Andaman and Nicobar Islands, Andhra Pradesh, Bihar, Chhattisgarh, Delhi, Goa, Gujarat, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Punjab, Rajasthan, Tamil Nadu, Uttar Pradesh, West Bengal [China].

Habit. Perennial herb.

Remarks. Record for Punjab fide Naithani (1990).

Melinis* P. Beauv., Ess. Agrostogr. 54. 1812*Type.** *Melinis minutiflora* P. Beauv.**681. *Melinis minutiflora* P. Beauv., Ess. Agrostogr. 54. t. 11. f. 4. 1812***Panicum minutiflorum* (P. Beauv.) Raspail, Ann. Sci. Nat. (Paris) 5: 299. 1825*Muhlenbergia brasiliensis* Steud., Syn. Pl. Glumac. 1: 177. 1854. Type: Brazil: Bahia; 1830; *M. Salzmann* 652 (US-87244).*Panicum melinis* Trin., Mém. Acad. Imp. Sci. Saint-Pétersbourg, Sér. 6, Sci. Math. Seconde Pt. Sci. Nat. 3, 1(2–3): 291. 1834*Suardia picta* Schrank, Pl. Rar. Hort. Monac. t. 58. 1820. Type: “Colitur in Tepidario.”*Tristegis glutinosa* Nees, Horae Phys. Berol. 47: 54. 1820. Type: Brasilia?**Type.** Brazil: “Cette plante croit a Rio-Janerio. Elle m’a été communiquée par M. De Jussieu.” (G).**Distribution.** Kerala, Tamil Nadu [China, Pakistan]. Naturalized.**Habit.** Perennial.**682. *Melinis repens* (Willd.) Zizka, Biblioth. Bot. 138: 55. 1988***Saccharum repens* Willd., Sp. Pl., ed. 4 [Willdenow] 1(1): 322. 1797. Type: “Habitat in Guinea.” Africa: Ghana; *Isert s.n.* [Thonning and other Danish Botanists] (B-W-1499).*Rhynchelytrum repens* (Willd.) C.E. Hubb., Bull. Misc. Inform. Kew 1934: 110. 1934*Tricholaena repens* (Willd.) Hitchc., Man. Grasses W. Ind. 331. 1936*Monachyron villosum* Parl., Niger Fl. 191. 1849. Type: Cape Verde Islands: S. Jacobi; *J.D. Hooker s.n.* (K). “Hab. in insula S. Jacobi (J.D. Hooker).”*Rhynchelytrum villosum* (Parl.) Chiov., Ann. Bot. (Rome) 8(3): 310. 1908 (as “Rhynchelitrum”)*Melinis villosa* (Parl.) Hack., Oesterr. Bot. Z. 51: 464. 1901*Rhynchelytrum roseum* (Nees) Stapf & C.E. Hubb. ex Bews, World’s Grass. 223. 1929 in obs. [reference to basionym is not given]*Tricholaena rosea* Nees, Fl. Afr. Austral. Ill. 17. 1841. Type: Cited many synonyms.*Tricholaena wightii* Nees & Arn. ex Steud., Syn. Pl. Glumac. 1: 93. 1854, nom. nud., pro. syn.**Distribution.** Andhra Pradesh, Assam, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Rajasthan, Tamil Nadu, Uttar Pradesh [China, Pakistan].**Habit.** Annual or perennial.

***Moorochloa* Veldkamp (2004), *Reinwardtia* 12(2): 138–139**

Type. *Moorochloa eruciformis* (Sm.) Veldkamp (*Panicum eruciforme* Sm.).

683. *Moorochloa eruciformis* (Sm.) Veldkamp, *Reinwardtia* 12(2): 139. 2004 var. *eruciformis*

Panicum eruciforme Sm., Fl. Graec. (Sibthorp) 1: 44, t. 59. 1806. Type: Greece: Samos “in arvis circa Junonis templum”; *Sibthorp s.n.* (OXF).

Urochloa eruciformis (Sm.) C. Nelson & Fern. Casas, Fontqueria 51: 4. 1998

Brachiaria eruciformis (Sm.) Griseb., Fl. Ross. (Ledeb.) 4: 469. 1853

Echinochloa eruciformis (Sm.) C. Koch, Linnaea 21: 437. 1848

Panicum caucasicum Trin., Sp. Gram. [Trinius] 3(22): t. 262. 1830. Type: “Figura ad specimen a Caucaso orientali.”

Panicum isachne Roth, Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 458. 1817. Type: India; *Heyne in Herb. Roth s.n.* = Numer. List [Wallich] no. 8693 (K).

Panicum isachne Roth var. *mexicanum* Beal, Grasses N. Amer. 2: 114. 1896 (as “mexicana”). Type: “Specimen seen was cultivated from seed obtained in Mexico, by U.S. Dept. Agricul 1887.”

Brachiaria isachne (Roth) Stapf, Fl. Trop. Afr. [Oliver et al.] 9: 552. 1919

Panicum pubinode Hochst. ex A. Rich., Tent. Fl. Abyss. 2: 363. 1850–1851. Type: “Crescit in convalle fluvii Tacazze, Schimper, pl. Schimp. Abyss., sect. III, 1855.” Abyssinia: Tacazze River; December, 1841; *Schimper 1855*

Panicum wightii Nees, Fl. Afr. Austral. Ill. 29. 1841. Type: “In graminosis vallis ad Gekau alt. 500–1000.” South Africa; Drège s.n. LT designated by Chase in Contr. U.S. Natl. Herb. 22: 36. 1920.

Distribution. Andhra Pradesh, Assam, Bihar, Chhattisgarh, Goa, Gujarat, Jammu and Kashmir, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Rajasthan, Tamil Nadu, West Bengal [also in Malaysia, Papua New Guinea, Africa, Australia, Europe, South America].

Habit. Annual.

684. *Moorochloa eruciformis* (Sm.) Veldkamp var. *divaricata* (Basappa & Muniy.)

E. A. Kellogg, comb. nov.

urn:lsid:ipni.org:names:77212058-1

Brachiaria eruciformis (Sm.) Veldkamp var. *divaricata* Basappa & Muniy., Proc. Indian Natl. Sci. Acad., B, 49(4): 379. 1983. Type: India: Karnataka, Mysore, 3 km west of Mysore, along the edge of tank-bund; 12 Aug 1979

Distribution. Andhra Pradesh, Goa, Gujarat, Jammu and Kashmir, Karnataka (Naithani), Madhya Pradesh, Maharashtra, Rajasthan, Tamil Nadu [also in Africa, Europe].

Habit. Annual.

Remarks. The above combination is made here to transfer *Brachiaria eruciformis* (Sm.) Veldkamp var. *divaricata* Basappa & Muniy. to *Moorochloa*.

***Oplismenus* P. Beauv., Fl. Oware 2: 14. 1810 (“1807”), nom. cons.**

Type. *Oplismenus africanus* P. Beauv.

685. *Oplismenus burmanni* (Retz.) P. Beauv., Ess. Agrostogr. 168, 169. 1812

Panicum burmanni Retz., Observ. Bot. (Retzius) 3: 10. 1783 (as “Burmanni”). Type: India: Madras; *Koenig s.n.* (LD).

Oplismenus affinis J. Presl in C. Presl, Reliq. Haenk. 1(4–5): 323. 1830, non Schult., 1824. Type: “Habitat in Panama.”

Panicum bromoides Lam., Tabl. Encycl. 1: 170. 1791 (“bromoide”). Type: Lieu nat. les I’lle de France.” *Commerson s.n.* (P).

Oplismenus bromoides (Lam.) P. Beauv., Ess. Agrostogr. 168, 169. 1812

Oplismenus cristatus J. Presl in C. Presl, Reliq. Haenk. 1(4–5): 323. 1830. Type: “Habitat in Mexico.” Mexico; *Haenke s.n.* (PR)

Oplismenus multisetus Hochst. ex A. Rich., Tent. Fl. Abyss. 2: 377. 1850–1851. Type: Crescit in convalle fluvii Tacazzé prope Tchélatchéranne, sub arborum umbra, mense Septembre, Schimper, Pl. Schimp. Abyss., sect. III, 1469.” Ethiopia; *Schimper 1469*

Oplismenus preslei Kunth, Enum. Pl. (Kunth) 1: 141. 1833. Type: Panama

Panicum album Poir., Encycl. (Lamarck) Suppl. 4: 274. 1816. Type: “Cette plante croit a l’île de Java (Herb. Desfontaine).”

Orthopogon albus Nees ex Steud., Syn. Pl. Glumac. 1: 44. 1853, pro syn. of *Panicum album*.

Panicum japonicum Steud., Flora 29: 18. 1846. Type: “Die japanischen Graser der Goringschen Sammlung”

Panicum multisetum Hochst. ex A. Rich., Tent. Fl. Abyss. 2: 377. 1850–1851 [cited as synonym of *O. multisetus*]

Panicum hirtellum sensu Burm. f., Fl. Ind. (N. L. Burman) 24. t. 12. f. 1. 1768, non L., 1763

Oplismenus humboldtianus Nees, Fl. Bras. Enum. Pl. 2(1): 264. 1829, nom. superfl. & illeg. for *O. burmanni*

Oplismenus indicus Duthie, Grass.n. W. India 8. 1883, non Roem. & Schult., 1817

Distribution. Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Chhattisgarh, Goa, Gujarat, Karnataka, Kerala, Rajasthan, Maharashtra, Meghalaya, Odisha, Tamil Nadu, Tripura, Uttar Pradesh, Uttarakhand, West Bengal [China, Sri Lanka].

Habit. Not recorded.

686. *Oplismenus compositus* (L.) P. Beauv., Ess. Agrostogr. 168,169. 1812

Panicum compositum L., Sp. Pl. 1: 57. 1753. Type: “Habitat in Zeylona.” Lectotype: *Herb. Hermann* 3: 45, No. 42 (BM-000621970). LT designated by Davey & Clayton in Kew Bull. 33: 156. 1978.

Orthopogon compositus (L.) R. Br., Prodr. Fl. Nov. Holland. 1: 194. 1810

Andropogon undatus Jacq., Collectanea [Jacquin] 3: 237. 1789. Type: “Crescit in insula Mauriti.”

Panicum undatum (Jacq.) Steud., Nomencl. Bot., ed. 2 (Steudel) 2: 264. 1841

Panicum lanceolatum Retz., Observ. Bot. (Retzius) 5: 17. 1788 (“1789”). Type: “Misit opt. Koenig.”

Echinochloa lanceolata (Retz.) Roem. & Schult., Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 476. 1817

Oplismenus decompositus Nees, Prodr. Fl. Norfolk. 19. 1833. Type: India; *Wight* 62 (NY).

Oplismenus elatior (L. f.) P. Beauv., Ess. Agrostogr. 168, 169. 1812

Oplismenus jacquinii Kunth, Révis. Gramin. 1: 44. 1829

Orthopogon pratensis Spreng., Syst. Veg. (ed. 16) [Sprengel] 1: 306. 1824 (“1825”). Lectotype: Mauritius; *St. Vincent* 43(B-W). LT designated by H. Scholz in Phan. Monogr. 13: 100. 1981.

Oplismenus pratensis (Spreng.) Schult. & Schult. f., Mant. 3 (Schultes & Schultes f.) Add. I 597. 1827

Orthopogon junghuhnii Nees in Miq., Fl. Ned. Ind. 3: 444. 1857 (“1855”). Type: Java; *Junghuhn s.n.*

Orthopogon longeracemosus (Steud.) Miq., Fl. Ned. Ind. 3: 443. 1857 (“1855”)

Orthopogon remotus Trin., Fund. Agrost. (Trinius) 181. 1820

Orthopogon sylvaticus (Lam.) Miq., Fl. Ned. Ind. 3: 443. 1857 (“1857”)

Panicum sylvaticum Lam., Encycl. (Lamarck) 4(2): 733. 1798. Type: “Cette plante croit naturellement a l’Isle-de-france dans les bois, ou elle a été recueillie par Commerson.” Mauritius; *P. Commerson s.n.* (L).

Oplismenus sylvaticus (Lam.) Roem. & Schult., Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 481. 1817

Panicum aristatum Retz., Observ. Bot. (Retzius) 4: 17. 1786–1787. Type: “E China adduxit plur. Rever. D. Wennerberg.” China; *Wennerberg s.n.* (LD).

Panicum bidentulum Steud., Syn. Pl. Glumac. 1: 45. 1853. Lectotype: Rebo Running; *Nees s.n.* (B). LT designated by Scholz in Phan. Monogr. 13: 86. 1981. (vide TROPICOS)

Panicum certificandum Steud., Syn. Pl. Glumac. 1: 44. 1853. Type: India: Bengal; *Rottler* 869 (M).

Panicum longeracemosum Steud., Syn. Pl. Glumac. 1: 45. 1853. Type: Indonesia: Java; *Zollinger* 915 & 919

Panicum peninsulanum Steud., Syn. Pl. Glumac. 1: 44. 1853. Type: India; *Rottler* s.n.

Oplismenus lanceolatus (Retz.) Kunth, Révis. Gramin. 1: 45. 1829, nom. superfl. & illeg for *Andropogon undatus*

Distribution. Andaman and Nicobar Islands, Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Chhattisgarh, Delhi, Goa, Himachal Pradesh, Jharkhand, Jammu and Kashmir, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Nagaland, Odisha, Rajasthan, Sikkim, Tamil Nadu, Tripura, Uttar Pradesh, Uttarakhand [China, Sri Lanka]. Pantropical.

Habit. Not recorded.

687. *Oplismenus undulatifolius* (Ard.) P. Beauv., Ess. Agrostogr. 171 1812

Panicum undulatifolium Ard., Animadv. Bot. Spec. Alt. 14, t. 4. 1764. Type: “invento in Jamaica a Clariss. Brown”; *Arduino* s.n. (M).

Orthopogon undulatifolius (Ard.) Spreng., Syst. Veg. (ed. 16) [Sprengel] 1: 306. 1824 (“1825”)

Panicum barbifolium Hochst. ex Schltdl., Linnaea 31(3): 307. 1861. Type: India: Orissa, “in silvis pr. Kaity mont. Nilagir”, *E. Hohenacker* 1279 (US-1445121).

Distribution. Jammu and Kashmir, Himachal Pradesh, Kerala, Meghalaya, Punjab, Sikkim, Tamil Nadu, Uttar Pradesh [China, Sri Lanka].

Habit. Not recorded.

***Ottochloa* Dandy, J. Bot. 69: 54. 1931**

Hemigymnia Stapf in D. Prain, Fl. Trop. Africa 9: 741. 1920, non Griff. (1842)

Type. *Ottochloa nodosa* (Kunth) Dandy (*Panicum nodosum* Kunth).

688. *Ottochloa nodosa* (Kunth) Dandy, J. Bot. 69: 55. 1931

Panicum nodosum Kunth, Enum. Pl. (Kunth) 1: 97. 1833

Panicum arnottianum Nees, Syn. Pl. Glumac. (Steudel) 1: 59. 1853. Type: India orientalis; *Wight* s.n. Java, Sri Lanka

Hemigymnia arnottiana (Nees) Stapf, Fl. Trop. Afr. [Oliver et al.] 9: 742. 1920

Ottochloa arnottiana (Nees) Dandy, J. Bot. 69: 55. 1931

Panicum multinode J. Presl in C. Presl, Reliq. Haenk. 1(4–5): 303. 1830, non Lam., 1798. Type: “Habitat ad Sorzogon Luzoniae.” Philippine Islands: Luzon, Sorsogon Province; *Haenke s.n.* (US-80779)

Hemigymnia multinodis Stapf, Fl. Trop. Afr. [Oliver et al.] 9: 742. 1920, in obs., nom. superfl. & illeg.

Distribution. Assam, Karnataka, Kerala, Manipur, Meghalaya, Nagaland, Sikkim, Tamil Nadu [China, Myanmar, Sri Lanka].

Habit. Perennial.

***Panicum* L., Sp. Pl. 1: 55. 1753**

Lectotype. *Panicum miliaceum* L. LT designated by Nash in N. L. Britton & A. Brown, Ill. Fl. N.U.S. ed. 2. 1: 134. 1913; affirmed by Hitchcock, Bull. U.S.D.A. 772: 229. 1920.

689. *Panicum antidotale* Retz., Observ. Bot. (Retzius) 4: 17. 1786–1787

Type. “Colitur in hortis Malabarorum. Honor. Koenig.” India; *Koenig s.n.* (LD)

Distribution. Bihar, Delhi, Gujarat, Himachal Pradesh, Jammu and Kashmir, Karnataka, Kerala, Maharashtra, Odisha, Punjab, Rajasthan, Tamil Nadu, Uttar Pradesh [Afghanistan, China, Myanmar, Pakistan].

Habit. Perennial.

690. *Panicum atosanguineum* Hochst. ex A. Rich., Tent. Fl. Abyss. 2: 375. 1850–1851

Panicum hydaspicum Edgew., J. Proc. Linn. Soc., Bot. 6: 207. 1862. Type: “Rechnab Bar.” [Flor. Mallica]

Type. “Crescit in locis humidis convallis fluvii Tacazze, prope Tchelatcheranne, mense Augusto, Schimper, in pl. Schimp. Abyss., sect. III 1709.” Ethiopia: Djeladgeranne; August 13, 1840; *Schimper 1709* (P).

Distribution. Maharashtra, Odisha, Rajasthan [Pakistan].

Habit. Annual.

691. *Panicum bisulcatum* Thunb., Nova Acta Regiae Soc. Sci. Upsal. 7: 141. 1815

Panicum acroanthum Steud., Syn. Pl. Glumac. 1: 87. 1854. Lectotype: *Anonymous 2* (L). LT designated by Veldkamp in Blumea 41(1): 188. 1996. “Hrbr. Mus. Lugd. Batav. (sub *Milium globosum* Thunb. quod non est.). Japonia.”

Panicum melananthum F. Muell., Trans. & Proc. Victorian Inst. Advancem. Sci. 1: 47. 1855. Type: Australia: Victoria, Ovens River, "On wet, sandy, or gravelly banks of the Ovens and King River"; February, 1853; *F. von Mueller s.n.* (L).

Panicum coloratum sensu F. Muell., Fragm. (Mueller) 8: 192. 1872–1874, non L., 1767

Syntypes. Japan; 1808; *Thunberg s.n.*, 1817, 1818 (UPS).

Distribution. Northeast India [China].

Habit. Annual.

Remarks. Distribution in India not recorded.

692. *Panicum brevifolium* L., Sp. Pl. 1: 59. 1753

Isachne tricarinata Roth, Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 476. 1817. Type: India; *Heyne s.n.*

Panicum tricarinatum (Roth) Steud., Syn. Pl. Glumac. 1: 94. 1854

Panicum arborescens L., Sp. Pl. 1: 59. 1753, p.p. Type: "Habitat in India." Lectotype: *Herb. Hermann 1: 30, No. 43* (BM-000621336). LT designated by Renvoize in Cafferty et al. (ed.), Taxon 49: 253. 2000.

Panicum biflorum Lam., Tabl. Encycl. 1: 174. 1791 (as "biflore"). Type: "Lieu nat. l'Isle de France. Tige ram. Panicule mediocre. Le cal. m'a paru univalve."

Panicum dubium Lam., Encycl. (Lamarck) 4: 743. 1798, nom. superfl & illeg. for *P. biflorum*

Panicum gladiatum Wawra, Oesterr. Bot. Z. 12: 170. 1862. Type: "Brasilia; culta in c.r. hort. Schonbr."

Panicum ovalifolium Poir., Encycl. (Lamarck) Suppl. 4: 279. 1816. Type: "Cette plante croit en Guinee." *Hb. Desvaux in Hb. Lamarck* (P).

Panicum trichopiptum Steud., Syn. Pl. Glumac. 1: 85. 1854. Type: Bahia, Senegamb. Guadeloupe.

Panicum guineense Desv. ex Poir., Encycl. (Lamarck) Suppl. 4: 279. 1816, nom. nud., pro. syn.

Type. "Habitat in India." Lectotype: *Herb. Linn. No. 80.64* (LINN). LT designated by Clayton & Renvoize in Polhill (ed.), Fl. Trop. E. Africa, Gramineae 3: 496. 1982.

Distribution. Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Chhattisgarh, Karnataka, Kerala, Madhya Pradesh, Meghalaya, Nagaland, Odisha, Sikkim, Tamil Nadu, Tripura [China].

Habit. Annual.

693. *Panicum coloratum* L., Mant. Pl. 30. 1767

Panicum coloratum L. var. *glaucum* Jauhar, J. Bombay Nat. Hist. Soc. 65:520. 1968

Type. “Habitat in Cairi. Forskohl.” Lectotype: Herb. Linn. No. 80.46 (LINN). LT designated by Zuloaga in Görts-van Rijn (ed.), *Fl. Guianas*, ser. A, 8: 384. 1990.

Distribution. Delhi, Rajasthan [China].

Habit. Perennial.

Remarks. Records for India fide Naithani (1990). Native range not recorded.

694. *Panicum curviflorum* Hornem., Hort. Bot. Hafn. 116. 1819 var. *curviflorum*

Panicum trypheron Schult., Mant. 2 (Schultes) 244. 1824. Type: India; *Roxburgh s.n.*

Panicum roxburghii Spreng., Syst. Veg. (ed. 16) [Sprengel] 1: 320. 1824 (“1825”).

Type: India orientalis

Panicum tenellum Roxb., Fl. Ind. (Carey & Wallich ed.) 1: 309. 1820, non Lam., 1791

Panicum miliaceum sensu Thwaites, Enum. Pl. Zeyl. (Thwaites). 360. 1864, non L., 1753

Neotype. India: Herb. Roxburgh, cultivated in Copenhagen in 1818, from seed obtained from Wallich as *Panicum tenellum* Roxb. which in turn were collected from plants cultivated in the Calcutta Bot. Gardens (BM). NT designated by Veldkamp in *Blumea* 34(1): 79. 1989.

Distribution. Andhra Pradesh, Assam, Bihar, Chhattisgarh, Delhi, Gujarat, Himachal Pradesh, Jammu and Kashmir, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Meghalaya, Odisha, Punjab, Rajasthan, Tamil Nadu, Tripura, Uttar Pradesh, West Bengal [China, Pakistan, Sri Lanka].

Habit. Annual.

695. *Panicum curviflorum* Horenem var. *suishaense* (Hayata) Veldkamp, *Blumea* 34(1): 81–82. 1989

Panicum suishaense Hayata, Icon. Pl. Formosan. 6, Suppl. 98. 1917. Type: Japan: Suisha; August, 1912; *Hayata s.n.* (TI).

Panicum elegantissimum Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 52. 1896. Type: Malay Peninsula: Perak; *Ridley 3116* (K).

Panicum papuanum Mez, Bot. Jahrb. Syst. 56 (Beibl. 125): 6. 1921. Type: New Guinea: Waigiou; *Lesson, A° 1825 in Hb. Kunth* (B).

Distribution. Bihar [China, Myanmar, Pakistan, Sri Lanka].

Habit. Annual.

696. *Panicum dichotomiflorum* Michx., Fl. Bor.-Amer. 1: 48. 1803

Type. USA. “Hab. in occidentalibus montium Alleghanis”, Michaux s.n.

Distribution. India [China]. Naturalized; possibly native to North America.

Habit. Annual.

Remarks. Distribution in India not recorded.

697. *Panicum deccanense* Naik & Patunkar, Reinwardtia 9(4): 405, f. 2. 1980

Type. India: Nanded, Degloor; September 24, 1974; *Patunkar 2450a* (Marathwada University Herbarium).

Distribution. Maharashtra.

Habit. Not recorded.

698. *Panicum fischeri* Bor, Kew Bull. 1956: 257–258. 1956

Type. India: Madras State, Nilgiris, Kullar, alt. 2500 ft.; October, 1889; *J.S. Gamble 21338* (K).

Distribution. Andhra Pradesh, Kerala, Tamil Nadu.

Habit. Perennial.

Remarks. Records for Kerala and Tamil Nadu fide Naithani (1990).

699. *Panicum flexuosum* Retz., Observ. Bot. (Retzius) 3: 9. 1783

Panicum psilopodium Trin. var. *coloratum* Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 46. 1896. Type: India: Simla and Garhwal, up to 6000 ft., Mt. Abu; *Duthie s.n.*

Type. “In Agris Oryzaceis passim obvenientem habui ab amiosiss”; *Koenig s.n.*

Distribution. Andhra Pradesh, Himachal Pradesh, Karnataka, Maharashtra, Tamil Nadu, Uttar Pradesh, Uttarakhand [China, Myanmar, Nepal, Pakistan].

Habit. Not recorded.

700. *Panicum garadei* Sundararagh. & Karthik., Bull. Bot. Surv. India 24(1–4): 146. 1983(“1982”)

Type. India: Karnataka, Dharwar; September 17, 1907; *L.D. Garade s.n.* (CAL).

Distribution. Karnataka.

Habit. Not recorded.

701. *Panicum gardneri* Thwaites, Enum. Pl. Zeyl. (Thwaites). 359. 1864

Isachne gardneri (Thwaites) Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 26. 1896

Type. Sri Lanka: Central Province, alt. upto 4000 ft.; *Thwaites Ceylon Plant* 894 (K).

Distribution. Karnataka, Kerala, Maharashtra, Tamil Nadu [Sri Lanka].

Habit. Perennial.

702. *Panicum hippothrix* K. Schum., Pflanzenw. Ost-Afrikas C: 103. 1895

Isachne obscurans Woodrow, Gard. Chron. ser. 3, 23: 161. 1898

Panicum obscurans (Woodrow) Stapf ex Woodrow, J. Bombay Nat. Hist. Soc. 13: 434. 1901

Type. Ghasal, Quellengebiet, Muva; *Holst no. 3177??* (K).

Distribution. Goa, Dadra and Nagar Haveli, Daman and Diu, Maharashtra.

Habit. Annual.

Remarks. Record for Maharashtra fide Naithani (1990).

703. *Panicum humidorum* Buch.-Ham. ex Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 53–54. 1896

Panicum perakense (Hook. f.) Merr., Philipp. J. Sci., C.11: 52. 1916.

Panicum humidorum Buch.-Ham. ex Hook. f. var. *perakense* Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 54. 1896. Type: Malaysia: Perak; *King's Collector* 2546 (K).

Lectotype. India: Assam, Goalpara; *Buchanan-Hamilton in Numer. List* [Wallich] no. 8721 (K). LT designated by Veldkamp in *Blumea* 41(1): 193. 1996.

Distribution. Assam, Kerala, Meghalaya, Odisha. [China].

Habit. Perennial.

704. *Panicum humile* Nees, Syn. Pl. Glumac. (Steudel) 1: 84. 1854

Panicum watense Mez, Bot. Jahrb. Syst. 34(1): 146–147. 1904. Type: “Senegambien, auf uberschwemmten Flächen bei Wato”; *Leprieur s.n.* (B).

Panicum austroasiaticum Ohwi, Acta Phytotax. Geobot. 11(1): 45. 1942 (as “austroasiaticum”), nom. illeg. superfl.

Panicum vescum R.R. Stewart, Brittonia 5(4): 452. 1945, nom. illeg. & superfl.

Type. Sri Lanka; *Thwaites Ceylon Plant* 3243 (P). B, K, US.

Distribution. Andaman and Nicobar Islands, Andhra Pradesh, Assam, Bihar, Goa, Karnataka, Kerala, Maharashtra, Orissa, Punjab, Sikkim, Uttar Pradesh, West Bengal [China, Myanmar, Pakistan, Sri Lanka].

Habit. Not recorded.

705. *Panicum incisum* Munro ex C.B. Clarke, J. Linn. Soc., Bot. 25: 84. t. 33. 1889

Type. “Nambre Forest, ..”[India: Assam], “*in Griffith Kew, n. 6505.*” Naga Hills; C.B. Clarke no. 40799 (K).

Distribution. Assam, Nagaland.

Habit. Perennial.

706. *Panicum johnii* S.M. Almeida, J. Bombay Nat. Hist. Soc. 83: 184. f. 3. 1986

Type. India: Maharashtra, Savantwadi, Sateli; September 5, 1980; S.M. Almeida 2597 (BLAT).

Distribution. Maharashtra.

Habit. Not recorded.

707. *Panicum khasianum* Munro ex Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 54. 1896

Lectotype. India: Khasia Hills, in marshes, 4000–6000 ft.; *Griffith 6498* (K). LT designated by Veldkamp in *Blumea* 41(1): 194. 1996.

Distribution. Assam, Meghalaya, Sikkim [Bhutan, China].

Habit. Perennial.

708. *Panicum laevifolium* Hack., Bull. Herb. Boissier 3(8): 378. 1895

Syntypes. South Africa: Transvaal, Pretoria, Kuduspoort; *Rehmann 4697* (W). South Africa: Transvaal, Boshveld inter Elandsriver et Klippan; *Rehmann 5123* (W). South Africa: Transvaal, Hogge Veld inter Porter et Trigardsfont; *Rehmann 6614* (W). South Africa: Transvaal, Donkershoek; *Rehmann 6552* (W).

Distribution. India [also in Africa]. Native to South Africa.

Habit. Not recorded.

Remarks. Distribution in India not recorded.

709. *Panicum luzonense* J. Presl in C. Presl, Reliq. Haenk. 1(4–5): 308. 1830

Panicum cambogiense Balansa, J. Bot. (Morot) 4: 142. 1890. Lectotype: Cambodia; *Godefroy 62*. LT designated by Veldkamp in *Blumea* 41(1): 195. 1996.

Panicum cruciabile Chase, J. Arnold Arbor. 20(3): 309. 1939

Panicum reticulatum Thwaites ex Trimen, J. Bot. 23: 271. 1885, non Torr., 1852. Type: “Habitat Broders of paddy-fields, Hewessee, Pasdun Korle; August, 1865; *Thwaites s.n.* (Thwaites Ceylon Plant 3890 in Herb. Perad.)

Panicum caesium sensu Hook. f., Hooker’s J. Bot. Kew Gard. Misc. 2: 97. 1850, non Nees, 1836

Type. Philippine Islands: Luzon; *Haenke s.n.* (PR). ISOTYPE, US.

Distribution. Andaman and Nicobar Islands, Assam [Myanmar].

Habit. Annual.

710. *Panicum miliaceum* L., Sp. Pl. 1: 58. 1753

Milium panicum Mill., Gard. Dict., ed. 8, Milium no. 1. 1768.

Panicum asperrimum Fisch., Cat. Jard. Pl. Gorenki 3. 1812. Type: “Cultivated in the garden of the University at Vienna from seed received from Count Razoumovsky of Gorenki [near Moscow]”

Panicum densepilosum Steud., Syn. Pl. Glumac. 1: 72. 1853. Type: Japan

Milium esculentum Moench, Methodus (Moench) 203. 1794, nom. superfl.

Panicum milium Pers., Syn. Pl. (Persoon) 1: 83. 1805, nom. illeg. & superfl. for *Panicum miliaceum*

Type. “Habitat in India.” Lectotype: *Herb. Linn. No. 80.49* (LINN). LT designated by Sherif & Siddiqi in El-Gadi (ed.), Fl. Libya 145: 282. 1988.

Distribution. Andhra Pradesh, Assam, Bihar, Goa, Gujarat, Himachal Pradesh, Jammu and Kashmir, Karnataka, Madhya Pradesh, Maharashtra, Odisha, Rajasthan, Sikkim, Tamil Nadu, Uttar Pradesh, West Bengal [Bhutan, China, Myanmar, Pakistan, Sri Lanka].

Habit. Annual.

Remarks. Widely cultivated in many parts of the world.

711. *Panicum nebruense* Jauhar & Joshi, Bull. Bot. Surv. India 8(1): 97, f. A. 1966

Type. Plant obtained originally from Australia and grown in Jodhpur; *P.P. Jauhar 9* (HCIO).

Distribution. Gujarat, Rajasthan [Australia].

Habit. Annual.

Remarks. Record for Rajasthan fide Naithani (1990).

712. *Panicum notatum* Retz., Observ. Bot. (Retzius) 4: 18. 1786–1787

Panicum montanum Roxb., Fl. Ind. (Carey and Wallich ed.) 1: 315. 1820. Type: India: Circar Mountains; *Roxburgh 813* (BM).

Type. “In Sumatra lectum dedit nuper nominatus D. Wennerberg.” Indonesia: Sumatra; *Wennerberg* (LD).

Distribution. Andhra Pradesh, Bihar, Chhattisgarh, Goa, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Rajasthan, Tamil Nadu [China, Myanmar, Nepal].

Habit. Perennial.

713. *Panicum paianum* Naik & Patunkar, Reinwardtia 9(4): 407. 1980 var. *paianum*

Type. India: Madhya Pradesh, Nanded, Rajgarh; October 26, 1974; *Patunkar 2430a* (Marathwada University Herbarium).

Distribution. Maharashtra, Madhya Pradesh.

Habit. Annual.

Remarks. Record for Maharashtra fide Naithani (1990).

714. *Panicum paianum* Naik & Patunkar var. *minor* Naik & Patunkar, Reinwardtia 9(4): 409. 1980

Type. India; *Patunkar 2439a* (Marathwada University Herbarium).

Distribution. Maharashtra.

Habit. Annual.

Remarks. Record for Maharashtra fide Naithani (1990).

715. *Panicum paludosum* Roxb., Fl. Ind. (Carey & Wallich ed.) 1: 310. 1820

Panicum decompositum var. *paludosum* (Roxb.) Trimen, Syst. Cat. Fl. Pl. Ceylon 105. 1885

Panicum proliferum var. *paludosum* (Roxb.) Stapf, Fl. Cap. 7: 407. 1899

Panicum repens var. *paludosum* (Roxb.) Kuntze, Revis. Gen. Pl. 3(3): 363. 1898

Panicum proliferum sensu Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 50. 1896, non Lam., 1797

Type. India: Circar Mountains; *Roxburgh 806* (BM). CAL, K.

Distribution. Andhra Pradesh, Assam, Bihar, Delhi, Goa, Gujarat, Haryana, Himachal Pradesh, Jammu and Kashmir, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Odisha, Punjab, Rajasthan, Tamil Nadu, Tripura, Uttar Pradesh [China, Nepal, Pakistan, Sri Lanka].

Habit. Perennial.

716. *Panicum phoiniclados* Naik & Patunkar, *Reinwardtia* 9(4): 403, f. 1. 1980

Type. Nanded. Gamkgaon; November 17, 1974; *Patunkar 2468a* (Marathwada University Herbarium).

Distribution. Madhya Pradesh, Maharashtra.

Habit. Perennial.

Remarks. Record for Maharashtra fide Naithani (1990).

717. *Panicum repens* L., *Sp. Pl.*, ed. 2. 1: 87. 1762

Panicum arenarium Brot., *Fl. Lusit.* 1: 82. 1804. Type: “Habitat in arenosis subhumidis, occurrit in Algarbiis, ultra Tagum, et Passim ad Mundam in agris Conimbricensibus.”

Panicum convolutum P. Beauv. ex Spreng., *Syst. Veg.* (ed. 16) [Sprengel] 1: 319. 1824 (“1825”). Type: Guinea; *A.M. Palisot de Beauvois Hb. Willdenow 18855* (B).

Panicum ischaemoides Retz., *Observ. Bot.* (Retzius) 4: 17. 1786–1787. Type: “Vulgatissimum Malabaricae in udis ad margines ftagnorum gramen, proceritate reliqua Panica excedens. Cel. Koenig.” India: Malabaricae; *Koenig s.n.* (LD).

Panicum leiogonum Delile, *Descr. Egypte, Hist. Nat.* 3: 51. 1812. Type: Africa: Damietta

Type. “Habitat in Hispania? inde missum a Claud. Alstroemer.” Lectotype: *Alstroemer 2a*, *Herb. Linn. No. 80.47* (LINN). LT designated by Hitchcock & Chase in *Contr. U. S. Natl. Herb.* 15: 85. 1910.

Distribution. Andhra Pradesh, Assam, Bihar, Chhattisgarh, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Nagaland, Odisha, Punjab, Rajasthan, Sikkim, Tamil Nadu, Tripura, West Bengal [China].

Habit. Perennial.

718. *Panicum sarmentosum* Roxb., *Fl. Ind.* (Carey & Wallich ed.) 1: 311. 1820

Panicum incomtum Trin., *Gram. Panic.* [Trinius] 200. 1826. Type: Philippine Islands: Manila; *Chamisso in Hb. Trinius 0760.02* (LE).

Type. Indonesia: Sumatra, brought into Botanic Garden in 1804 by *Dr. Charles Campbell*; *Roxburgh 1778* (HOLOTYPE, BM). ISOTYPES CAL, K.

Distribution. Assam, Meghalaya, West Bengal [China, Myanmar].

Habit. Perennial.

719. *Panicum sparsicomum* Nees, *Syn. Pl. Glumac.* (Steudel) 1: 83. 1854

Agrostis zeylanica Klein ex Steud., *Syn. Pl. Glumac.* 1: 83. 1854, nom. nud., pro. syn.

Cyrtococcum sparsicomum (Nees) A. Camus, Bull. Mus. Natl. Hist. Nat. 27: 118. 1921

Type. Sri Lanka; *Klein s.n.*, *Wight s.n.*

Distribution. Tamil Nadu [Sri Lanka].

Habit. Annual or perennial.

720. *Panicum sumatrense* Roth, Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 434. 1817

Panicum psilopodium Trin., Gram. Panic. [Trinius] 217. 1826. Lectotype: *Lindley* sub *P. ramosum* Koem (LE). LT designated by Veldkamp in Blumea 41(1): 206. 1996.

Panicum sumatrense Roth ssp. *psilopodium* (Trin.) de Wet., J. Agric. Trop. Bot. Appl. 30(2): 162. 1983

Panicum miliare Lam., Tabl. Encycl. 1: 173. 1791 (as “miliaire”). Type: “Lieu nat. Inde” India; *Sonnerat s.n.* (P-LAM).

Type. Indonesia: Sumatra; *Heyne in Hb. Roth s.n.* (B). LT designated by Veldkamp in Blumea 41(1): 205. 1996.

Distribution. Andhra Pradesh, Bihar, Chhattisgarh, Gujarat, Jammu and Kashmir, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Rajasthan, Tamil Nadu, Uttar Pradesh, West Bengal [Pakistan, Sri Lanka].

Habit. Annual.

721. *Panicum turgidum* Forssk., Fl. Aegypt.-Arab. 18–19. 1775

Type. “In desertis Kahirinis Arab. Bockar.” Egypt: Cairo, Kahirini desert; 1761–1762; *Forsskal s.n.* (C).

Distribution. Gujarat, Rajasthan [Pakistan].

Habit. Perennial.

722. *Panicum virgatum* L., Sp. Pl. 1: 59. 1753

Milium virgatum (L.) Lunell, Amer. Midl. Naturalist 4: 212. 1915

Eatonia purpurascens Rafin., J. Phys. Chim. Hist. Nat. Arts 89: 104. 1819. Type: USA: New York, Long Island; *Coll. Ukn. s.n.*

Panicum coloratum Walter, Fl. Carol. 73. 1788, non L., 1767

Panicum giganteum Scheele, Linnaea 22: 340–341. 1849. Type: “In trockenen felsigen Flusebett des Cibolo zwischen San Antonio und Neubraunfels”; *Lindheimer s.n.*

Panicum glaberrimum Steud., Syn. Pl. Glumac. 1: 94. 1854. Type: “Cultum ex H. Berol. sem. 1840. sub. Ichnantus glaber. Link. Am. sprtr.”

Panicum kunthii E. Fourn. ex Hemsl., Biol. Centr.- Amer., Bot. 3: 490. 1885, non Steud., 1841

Chasea virgata (L.) Nieuwl., Amer. Midl. Naturalist 2: 64. 1911 [Generic name invalidly published.]

Panicum pruinatum Bernh. ex Trin., Gram. Panic. [Trinius] 191. 1826 (as “pruinosi”), nom. nud.

Type. “Habitat in Virginia.” Lectotype: *Clayton 578, Herb. Linn. No. 80.61* (LINN). LT designated by Hitchcock in Contr. U. S. Natl. Herb. 12: 118. 1908.

Distribution. India [North America, South America]. Native to North America.

Habit. Perennial.

Remarks. It is unclear if this species is naturalized in India or only cultivated.

***Pseudechinolaena* Stapf, Fl. Trop. Afr. [Oliver et al.] 9: 494. 1919**

Type. *Pseudechinolaena polystachya* (Kunth) Stapf (*Echinolaena polystachya* Kunth).

723. *Pseudechinolaena polystachya* (Kunth) Stapf, Fl. Trop. Afr. [Oliver et al.] 9: 495. 1919

Echinolaena polystachya Kunth, Nov. Gen. Sp. [H.B.K.] 1: 119 (ed. qto.). 1816. Type: Colombia; *Humboldt & Bonpland s.n.* (P). “Crescit in ripa fluminis Magdalenae inter Tenerife et Zambrano.”

Echinolaena trinii Zoll. & Moritz, Syst. Verz. (Zollinger) 102. 1846. Type: “*Panicum uncinatum* Trin, V.3. non Brown”

Lappago aliena Spreng., Neue Entdeck. Pflanzenk. 3: 15. 1822. Type: “Hab. in Brasilia”; *Zeyher s.n.*

Panicum uncinatum Raddi, Agrostogr. Bras. [Raddi] 41–42. 1823. Lectotype: Brazil: Rio de Janeiro “Invenitur cum precedenti, in sylvaticis prope Catumbi, non procul ab Urbe Rio de Janeiro”; *Raddi s.n.* (PI). LT designated by Baldini & Longhi-Wagner Taxon 55(2): 477. 2006

Panicum heteranthum Link, Hort. Berol. [Link] 1: 212. 1827. Type: “Habitat in Brasilia.”

Panicum nemorosum sensu Trin., Gram. Panic. [Trinius] 173. 1826, non Sw., 1788

Panicum glandulosum Nees ex Trin., Gram. Panic. [Trinius] 174. 1826, nom. nud.

Panicum polystachyum (Kunth) K. Schum., Pflanzenw. Ost-Afrikas C: 103. 1895, non A. Rich ex Kunth, 1833, nec J. Presl & C. Presl, 1828.

Distribution. Assam, Andhra Pradesh, Arunachal Pradesh, Bihar, Karnataka, Kerala, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim, Tamil Nadu, West Bengal [China, Pakistan].

Habit. Annual.

***Pseudoraphis* Griff. ex Pilg., Notizbl. Bot. Gart. Berlin-Dahlem 10(93): 210. 1928**

Lectotype. *Pseudoraphis brunoniana* (Wall. & Griff.) Griff. ex Pilg. (*Panicum brunonianum* Wall. & Griff.) LT Designated by Ohwi, Acta Phytotax. Geobot. 10: 272. 1941.

724. *Pseudoraphis brunoniana* (Wall. & Griff.) Griff. ex Pilg., Notizbl. Bot. Gart. Berlin-Dahlem 10(93): 210. 1928

Panicum brunonianum Wall. & Griff., J. Asiat. Soc. Bengal 5: 574. 1836. Type: Bangladesh ("Bengal"): Sylhet District, near Goalnuyar; September 28, 1835 (locality uncertain); *W. Griffith* 6559 (L). "Hab. In aquis leniter currentibus profundis plagarum Bheels dictarum prope Goalna." (vide Tropicos).

Chamaeraphis spinescens (R. Br.) Poir. var. *brunoniana* (Wall. & Griff.) Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 62. 1896

Panicum intermedium Griff., Not. Pl. Asiat. 3: 29. 1851, nom. invalid.

Holcus natans Roxb. ex Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 62. 1896, nom. nud.

Distribution. Bihar, Madhya Pradesh, Manipur, Odisha, Uttarakhand, West Bengal [Bangladesh, China, Myanmar, Sri Lanka].

Habit. Perennial.

725. *Pseudoraphis minuta* (Mez) Pilg., Notizbl. Bot. Gart. Berlin-Dahlem 10(93): 210. 1928

Chamaeraphis minuta Mez, Notizbl. Bot. Gart. Berlin-Dahlem 7(63): 48. 1917. Syn-types: Vietnam: Bengalia inferior prope Daccar; *C.B. Clarke* 17040 (B). Vietnam: Tonkin, prope Hanoi ad paludum margines; *B. Balansa* 1593, 1592, 4779 (P). Burma; *Kurz* s.n. Cachar; *Keenan* s.n.

Chamaeraphis gracilis sensu Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 62. 1896, non Hack., 1885

Distribution. Assam, Bihar, Odisha, West Bengal [Myanmar].

Habit. Perennial.

726. *Pseudoraphis sordida* (Thwaites) S.M. Phillips & S.L. Chen. Novon 13: 469. 2003

Panicum sordidum Thwaites, Enum. Pl. Zeyl.: 443. 1864. Type: Sri Lanka: Columbo, G. Thwaites C. P. 3857 (K)

Pseudoraphis spinescens (R. Br.) Vickery var. *depauperata* (Nees ex Hook.f.) Bor, Grasses Burma, Ceylon, India and Pakistan 354. 1960.

Distribution. West Bengal.

Habit. Perennial.

727. *Pseudoraphis squarrosa* (L.f.) Chase, J. Arnold Arbor. 20(3): 313. 1939

Andropogon squarrosus L. f., Suppl. Pl. 433. 1782 (“1781”) (as “squarrosus”). Type:

“Habitat circa Zeylonam natans supra stagna profundiora rarior.” *Koenig s.n.*

Anatherum squarrosus (L.f.) P. Beauv., Ess. Agrostogr. 151. 1812

Echinochloa squarrosa (L.f.) Roem. & Schult., Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 479. 1817.

Orthopogon squarrosus (L.f.) Spreng., Syst. Veg. (ed. 16) [Sprengel] 1: 307. 1824 (“1825”)

Chamaeraphis squarrosa (L.f.) Chase, Contr. U.S. Natl. Herb. 24: 203. 1925

Panicum spinescens R. Br., Prodr. Fl. Nov. Holland. 1: 193. 1810. Type: Australia: New South Wales, near Port Jackson; *R. Brown s.n.* (BM).

Chamaeraphis spinescens (R. Br.) Poir., Encycl. (Lamarck) Suppl. 2: 189. 1811

Pseudoraphis spinescens (R. Br.) Vickery, Proc. Roy. Soc. Queensland 62: 69. 1952 (“1950”)

Panicum abortivum R. Br., Prodr. Fl. Nov. Holland. 193. 1810. Type: “Littora Novae Hollandiae intra tropicum.”

Chamaeraphis abortiva (R. Br.) Poir., Encycl. (Lamarck) Suppl. 2: 189. 1811

Orthopogon abortivus (R. Br.) Spreng., Syst. Veg. (ed. 16) [Sprengel] 1: 306. 1824 (“1825”)

Pseudoraphis abortiva (R. Br.) Pilg., Notizbl. Bot. Gart. Berlin-Dahlem 10(93): 210. 1928

Pseudoraphis aspera Pilg., Notizbl. Bot. Gart. Berlin-Dahlem 10(93): 210. 1928

Chamaeraphis aspera Nees, Numer. List. (Wallich). no. 8679. 1849

Panicum squarrosus (L.f.) Lam., Encycl. (Lamarck) 4: 733. 1798, non Retz., 1786

Panicum asperum J. Koenig, Naturforscher (Halle) 23: 209. 1788, non Lam., 1778. Type: India: Calcutta; January, 1785; *J. Koenig s.n.*

Chamaeraphis spinosa P. Beauv. ex Schult., Mant. 2 (Schultes) 253. 1824, nom. nud. pro. syn.

Distribution. Andhra Pradesh, Bihar, Chhattisgarh, Goa, Gujarat, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Nagaland, Odisha, Rajasthan, Tamil Nadu, Uttar Pradesh, West Bengal [Sri Lanka].

Habit. Perennial.

Remarks. It is unclear whether the name for this species should be *Pseudoraphis squarrosa*, based on *Andropogon squarrosus* as noted here, or *P. spinescens*. Bor (1960) suggests that *A. squarrosus* may be a nom. confusum. If so, then the basionym *Panicum spinescens* R. Br. would take priority.

***Sacciolepis* Nash, Man. Fl. N. States (Britton) 89. 1901**

Type. *Sacciolepis gibba* (Elliott) Nash (*Panicum gibbum* Elliott).

728. *Sacciolepis curvata* (L.) Chase, Proc. Biol. Soc. Wash. 21: 8. 1908

Panicum curvatum L., Syst. Nat., ed. 12. 2: 732. 1767. Type: "Habitat in Suratte."
Lectotype: Herb. Linn. No. 80.60 (LINN). LT designated by Simon in Kew Bull. 27: 390. 1972.

Panicum coryophorum Kunth, Révis. Gramin. 1: 387. t. 107. 1831. Type: "Crescit in Madagascaria"; A. Petit-Thours s.n. (P).

Distribution. Andhra Pradesh, Kerala, Tamil Nadu, West Bengal [Sri Lanka].

Habit. Perennial.

729. *Sacciolepis indica* (L.) Chase, Proc. Biol. Soc. Wash. 21: 8. 1908 var. *indica*

Aira indica L., Sp. Pl. 1: 63 ("spicata"), Errata ("indicum"). 1753. Type: "Habitat ad villas et plateas Indiae orientalis. Koenig." Neotype: Sri Lanka. Sabaragamuwa Province, Ratnagsura District; October 22, 1974; *Davidse* 7871 (K). NT designated by Renvoize in Cafferty et al. (ed.), Taxon 49: 244. 2000.

Hymenachne indica (L.) Buese, Pl. Jungh. 377. 1854

Panicum angustum Trin., Sp. Gram. [Trinius] 3: t. 334. 1835. Type: "Figura ad specimen Nepalense"

Panicum indicum Mill. var. *angustum* (Trin.) Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 42. 1896

Panicum arcuatum R. Br., Prodr. Fl. Nov. Holland. 189. 1810. Type: "littoral tropical New Holland"; *Banks* s.n.

Panicum conglomeratum L., Mant. Pl. Altera 324. 1771. Type: "Habitat [in India.] Sp. Pl. 1: 63 (1753)" Neotype: Sri Lanka: Sabaragamuwa Province, Ratnagsura District; October 22, 1974; *Davidse* 7871 (K). Neotype designated by Renvoize in Cafferty et al. (ed.), Taxon 49: 244. 2000.

Panicum contractum Wight. & Arn. ex Nees, Linnaea 10 (Litt.-Ber.): 117. 1836. Type: "Hab. in Penins. Ind. ord. Seminiferum exemplum e China retulit co. Meyen."

Panicum indicum Mill. var. *brachiatum* Hook. f. in Trimen, Handb. Fl. Ceylon 5: 148. 1900. Type: Abundant throughout the hotter parts of the Island; Peradeniya; *Thwaites* s.n.

Panicum microstachyum Lam., Tabl. Encycl. 1: 170. 1791, nom superfl. & illeg.? Type: "Ex India. Sonner An P. curvatum L."

Panicum phalarioides Roem. & Schult., Syst. Veg., ed. 15 bis [Roemer & Schultes]. 2: 452. 1817 [as “phalaroides” in IPNI and Tropicos]. Type: “Specimen nostrum nomine Phalarides insignitum Lahaye attulit e Java.”

Sacciolepis spicata Honda, J. Fac. Sci. Univ. Tokyo, Sect. 3, Bot. 3(1): 261. 1930, invalid

Panicum myruos Lam., Tabl. Encycl. 1: 172. 1791 (as “myruos”). Type: “Ex America merid. Comm. A D. Richard.” French Guiana; *D. LeBlond s.n.* (P-LA).

Panicum indicum (L.) L., Mant. Pl. Altera 184. 1771, nom. later hom. & illeg., non Mill., 1768

Distribution. Andhra Pradesh, Assam, Chhattisgarh, Goa, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Manipur, Maharashtra, Meghalaya, Nagaland, Odisha, Tamil Nadu, Uttar Pradesh, Uttarakhand [Bhutan, China, Myanmar, Nepal].

Habit. Annual.

730. *Sacciolepis indica* (L.) Chase var. *intermedia* Almeida, J. Bombay Nat. Hist. Soc. 83(1): 184–185. 1986

Type. India: Maharashtra, Savantwadi, Charatha; December 31, 1977; *S.M. Almeida 1393*.

Distribution. Maharashtra.

Habit. Annual.

731. *Sacciolepis interrupta* (Willd.) Stapf, Fl. Trop. Afr. [Oliver et al.] 9(4): 757. 1920

Hymenachne interrupta (Willd.) Buese, Pl. Jungh. 377. 1854

Panicum interruptum Willd., Sp. Pl., ed. 4 [Willdenow] 1(1): 341. 1797. Type: “Habitat in Indiae stagnis.”

Panicum inundatum Kunth, Révis. Gramin. 1: 34. 1829, nom. illeg. superfl.

Panicum uliginosum Roth, Nov. Pl. Sp. 50. 1821. Type: “Heyne ex India Orientali.”

Panicum indicum sensu Hack. in Bol. Soc. Brot. 5: 210. 1887, non L., 1771

Distribution. Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Chhattisgarh, Goa, Gujarat, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Nagaland, Odisha, Rajasthan, Sikkim, Tamil Nadu, Tripura, Uttar Pradesh, West Bengal [Myanmar].

Habit. Perennial.

732. *Sacciolepis myosuroides* (R. Br.) Chase ex E.G. Camus, Fl. Indo-Chine [P.H. Lecomte et al.] 7: 460. 1922

Hymenachne myosuroides (R. Br.) Balansa, J. Bot. (Morot) 4: 143. 1890

Panicum myosuroides R. Br., Prodr. Fl. Nov. Holland. 189. 1810. Type: "Littora novae Hollandiae intra tropicum."

Distribution. Andaman and Nicobar Islands, Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Chhattisgarh, Himachal Pradesh, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Odisha, Rajasthan, Sikkim, Tamil Nadu, Tripura, Uttar Pradesh, West Bengal [Myanmar].

Habit. Annual.

***Setaria* P. Beauv., Ess. Agrostogr. 51, 178. 1812, nom. cons.**

Type. *Setaria viridis* (L.) P. Beauv. (*Panicum viride* L.), type cons.

733. *Setaria barbata* (Lam.) Kunth, Révis. Gramin. 1: 47. 1829

Panicum barbatum Lam., Tabl. Encycl. 1: 171. 1791. Type: "Ex Insula Franciae." Mauritius; *P. Commerson* s.n. (P).

Chaetochloa barbata (Lam.) Hitchc. & Chase, Contr. U.S. Natl. Herb. 18: 348. 1917

Panicum costatum Roxb., Fl. Ind. (Carey & Wallich ed.) 1: 314. 1820. Type: "Introduced into the Botanical Garden from the Mauritius, by Captain Tennant, in 1802."

Chamaeraphis costata (Roxb.) Kuntze, Revis. Gen. Pl. 2: 771. 1891

Chamaeraphis viatica Kuntze, Revis. Gen. Pl. 2: 770. 1891

Panicum basisetum Steud., Syn. Pl. Glumac. 1: 52. 1853. Type: "Jardin legit in Guinea."

Setaria basiseta (Steud.) T. Durand & Schinz, Consp. Fl. Afric. [T.A. Durand & H. Schinz]. 5: 772. 1894

Panicum rarisetum Steud., Syn. Pl. Glumac. 1: 52. 1853. Type: "Ins. Borbonia et var. minor Ins. Maurit. Siber hrbr. Mixt. Nr. 144."

Panicum rhachitrichum Hochst., Flora 27: 254. 1844. Type: "Habitat agros in Nubiae provincia Cordofan." Sudan; Kotschy, in pll. exsicc. Un. it. ex Kotschy itin. *Nubico* s.n.

Setaria rachitricha (Hochst.) Rendle, Cat. Afr. Pl. 2(1): 188. 1899. Type: Sudan. Nubia, Prov. Cordofan, C.G.T. Kotschy s.n. (isotypes, BR!, M!, P!, TUB)

Setaria costata Stapf, Bull. Agric. Congo Belge 10: 250. 1919, nom. nud.

Panicum flavescens sensu Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 56. 1896, non Sw., 1788

Panicum viaticum Salzm. ex Doell, Fl. Bras. (Martius) 2(2): 155. 1877, non Griff. (1851), nom. superfl. & illeg.

Distribution. Andaman and Nicobar Islands, Assam, Bihar, Jammu and Kashmir, Karnataka, Kerala, Madhya Pradesh, Meghalaya, Rajasthan, Tamil Nadu, West Bengal [Myanmar, Sri Lanka].

Habit. Perennial.

734. *Setaria flavida* (Retz.) Veldkamp, *Blumea* 39(1–2): 376. 1994

Panicum flavidum Retz., Observ. Bot. (Retzius) 4: 15. 1786–1787. Type: “E Zeylona misit honor Koenig.” Sri Lanka; *Koenig s.n.* (LD).

Paspalidium flavidum (Retz.) A. Camus, Fl. Indo-Chine [P.H. Lecomte et al.] 7: 419. 1922

Panicum granulare Lam., Tabl. Encycl. 1: 170. 1791. Type: “Ex ins. Francis”; *Com-merson s.n.*

Panicum distans Trinius, Sp. Gram. 2(15): tab. 172. 1829

Paspalidium flavidum (Retz.) A. Camus var. *distans* (Trin.) Hook. f., Fl. Brit. India 7: 29. 1896

Paspalidium distans (Trin.) Hughes, Bull. Misc. Inform. Kew 1923: 317. 1923

Setaria distans (Trin.) Veldkamp, *Blumea* 39: 376. 1994

Panicum floridum Royle, Ill. Bot. Himal. Mts. 1: 420. 1840, nom. nud,

Distribution. Andaman and Nicobar Islands, Andhra Pradesh, Assam, Bihar, Dadra and Nagar Haveli, Delhi, Goa, Gujarat, Jammu and Kashmir, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Rajasthan, Tamil Nadu, Tripura, Uttar Pradesh, Uttarakhand, West Bengal [Bhutan, China, Sri Lanka].

Habit. Perennial.

735. *Setaria forbesiana* (Nees) Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 81. 1896

Panicum forbesianum Nees, Syn. Pl. Glumac. (Steudel) 1: 98. 1854. Type: Nepal: up to 5000 ft.; *Royle 31*

Setaria dubia B.J. Keng & Y.K. Ma, Acta Bot. Yunnan. 2 (4): 421. 1980

Distribution. Bihar, Maharashtra, Meghalaya, Nagaland, Odisha. [Bhutan, China, Myanmar, Nepal].

Habit. Perennial.

736. *Setaria geminata* (Forssk.) Veldkamp, Blumea 39(1–2): 377. 1994

Panicum geminatum Forssk., Fl. Aegypt.-Arab. 18. 1775. Type: “Rofettae in pratis ad littoral Nili.” Egypt: Rashid; November 2–6, 1761; *Forsskal s.n.* (C).

Paspalidium geminatum (Forssk.) Stapf, Fl. Trop. Afr. [Oliver et al.] 9: 583. 1920

Digitaria affinis Roem. & Schult., Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 470. 1817. Type: “In Santa Fe de Bogota Ab amiciss. Zea nobiscum communicate.”

Panicum affine (Roem. & Schult.) Nees, Fl. Bras. Enum. Pl. 2(1): 113. 1829

Paspalum appressum Lam., Tabl. Encycl. 1: 176. 1791. Syntypes: Isle de France (Mauritius), *Commerson s.n.* (syntype, P-LA, isosyntype, US-2941981, fragment ex P-LA).

Digitaria appressa (Lam.) Pers., Syn. Pl. (Persoon) 1: 85. 1805

Panicum appressum (Lam.) Döll, Fl. Bras. (Martius) 2(2): 184. 1877, non Forssk., 1775

Panicum beckmanniiforme J. C. Mikan ex Trin., Neue Entdeck. Pflanzenk. 2: 83. 1821 (as “beckmanniaeforme”). Type: “Hab. in Brasilia.” (LE).

Panicum briziforme J. Presl in C.B. Presl, Reliq. Haenk. 1(4–5): 302. 1830 (as “brizaeforme”). Type: “Habitat in Luzonia.” Lectotype: Philippines: Luzon; *Haenke s.n.* (MO, US-80492 (fragm.)). LT designated by Veldkamp in Blumea 39: 377. 1994.

Panicum fluitans Retz., Observ. Bot. (Retzius) 3: 8. 1783. Type: “Misit Claris Koenig.” India; *Koenig s.n. in Herb. Retzius* (LD). holotype, LD neg. 7008 K; isotypes, BM, K, fragment).

Panicum paspaloides Pers., Syn. Pl. (Persoon) 1: 81. 1805. Type: “Hab. in India.”

Panicum truncatum Trin., Gram. Panic. [Trinius] 130. 1826. Syntypes: India orientalis; *Lindley s.n.* Egypt; *Sieber 28.* Brazil; *Nees ab Esenbeck s.n.*

Distribution. Andhra Pradesh, Bihar, Delhi, Goa, Gujarat, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Rajasthan, Tamil Nadu, Uttar Pradesh [Pakistan].

Habit. Perennial.

737. *Setaria homonyma* (Steud.) Chiov., Nuovo Giorn. Bot. Ital. n. s. 26: 78. 1919 var. *homonyma*

Panicum homonymum Steud., Syn. Pl. Glumac. 1: 48. 1853. Type: “herb. Royle nr. 47” Nepal; *Royle 47(P)*. holotype, P; isotype, K!, photo SI!)

Panicum chamaeraphis Nees ex A. Braun., Index Sem. (Berlin) 1855 App. p. 20, non Trin., 1835

Panicum thollonii Franchet, Contr. Fl. Congo Franç.: 43. 1895

Setaria thollonii (Franchet) Stapf, Bull. Misc. Inform. Kew 1927: 267. 1927. Lectotype: Democratic Republic of the Congo. “Congo Français: dans les sables de Brazzaville”, 1887, *M. Thollon 826* (P!, photo SI!; duplicates, K!, photo SI!)

Panicum bongaense Pilger, Bot. Jahrb. Syst. 33 : 44. 1902

Setaria bongaensis (Pilger) Mez, Wiss. Erg. Zweit. Deut. Zentr.-Afr. Exped., Bot. 2: 20. 1922. Lectotype: Democratic Republic of the Congo. Bonga, Jul 1899, *A. Schlechter* 12647 (BR!; isoelectotypes, G!, L!, US-1445616).

Setaria aequalis Stapf, Bull. Misc. Inform. Kew 1927: 267. 1927. Type: Tanzania. Kilimanjaro: Marangu, 1500 m, Sep 1893, *G. Volken* 914 (holotype, K!, photo SI!; isotype, E)

Setaria kialaensis Vanderyst, Bull. Agric. Congo Belge 16: 682. 1925. Lectotype (designated here): Democratic Republic of the Congo. Boko-Nzadi, 1916, *H. Vanderyst* 6105 (BR!, photo SI!; duplicate BR, photo SI!)

Setaria lancea Stapf ex Massey, Sudan Grasses: 34. 1926. Type: Sudan. Mongalla, 7 Apr 1907, *Brown* 1114 (K!).

Setaria microprolepis Stapf, Fl. Trop. Afr. 9: 849. 1930. Type: Angola. Cungulungulo, *F. Welwitsch* 7176 (BM, K!, fragment).

Distribution. Bihar, Chhattisgarh, Himachal Pradesh, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Rajasthan, Tamil Nadu, Uttar Pradesh, Uttarakhand, West Bengal [Nepal].

Habit. Annual.

738. *Setaria homonyma* (Steud.) Chiov. var. *depauperata* Babu, Herb. Fl. Dehra Dun 642. 1977

Type. India: Uttarakhand, Dehra Dun, Robber's cave; *C.R. Babu* 33485 (BSD).

Distribution. Uttar Pradesh, Uttarakhand.

Habit. Annual.

Remarks. Record for Uttar Pradesh fide Naithani (1990).

739. *Setaria intermedia* Roem. & Schult., Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 489. 1817

Panicum intermedium (Roem. & Schult.) Roth, Nov. Pl. Sp. 47–48. 1821, non Vahl, 1813

Panicum tomentosum Roxb., Fl. Ind. (Carey and Wallich ed.) 1: 303. 1820. Type: “This is a delicate, rare species, found growing in tufts, or dry pasture ground over various parts of India.” Type: India. *Herb. Roxburgh s.n.* (holotype, BM!, isotypes, CAL!, K, Icon. Ined. 789!; K, Icon. Ined. 787!).

Setaria tomentosa (Roxb.) Kunth, Révis. Gramin. 1: 47. 1829

Type. “In India orientali; *B. Heyne s.n.*”

Distribution. Andhra Pradesh, Bihar, Chhattisgarh, Himachal Pradesh, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Punjab, Ra-

jasthan, Tamil Nadu, Uttar Pradesh, Uttarakhand, West Bengal [Bhutan, Myanmar, Pakistan, Sri Lanka].

Habit. Annual.

740. *Setaria italica* (L.) P. Beauv., Ess. Agrostogr. 51, 170, 178. 1812

Panicum italicum L., Sp. Pl. 1: 56. 1753. Type: "Habitat in Indiis." Lectotype: Herb. A. van Royen No. 912.356-242 (L). LT designated by Veldkamp in Cafferty et al. (ed.), Taxon 49: 253. 2000.

Chaetochloa italica (L.) Scribn., Bull. Div. Agrostol. U.S.D.A. 4: 39. 1897

Chamaeraphis italica (L.) Kuntze, Revis. Gen. Pl. 2: 767. 1891

Ixophorus italicus (L.) Nash, Bull. Torrey Bot. Club 22: 423. 1895

Pennisetum italicum (L.) R. Br., Prodr. Fl. Nov. Holland. 195. 1810

Panicum germanicum Mill., Gard. Dict., ed. 8. Panicum no. 1. 1768. Type: German Panic C.B. P. 27

Chaetochloa germanica (Mill.) Smyth, Trans. Kansas Acad. Sci. 25: 89. 1913

Pennisetum germanicum (Mill.) Baumg., Enum. Stirp. Transsilv. 3: 277. 1816

Setaria germanica (Mill.) P. Beauv., Ess. Agrostogr. 51. t. 13. 169, 178. 1812

Panicum italicum L. var. *californicum* Körn. & H. Werner, Handb. Getreidebaus 1: 273. 1885. Type: "Als Kalifornische Kolbenhirse."

Setaria californica Kellogg, Proc. Calif. Acad. Sci. ser. 2, 1: 26. 1873. Type: USA: from the head Valley of the Sacramento River; *Dosh s.n.*

Setaria italica (L.) P. Beauv. var. *germanica* (Mill.) Schrad., Linnaea 12: 430. 1838

Setaria italica (L.) P. Beauv. subvar. *condensa* F.T. Hubb., Amer. J. Bot. 2: 195. 1915. Type: South Asia: Assam, Hathegaon, May 1902, *Chatterjee s.n.* (holotype, GH!).

Setaria italica (L.) P. Beauv. var. *purpureoseta* F.T. Hubb., Amer. J. Bot. 2: 194. 1915. Type: India. Almona, Kumaon, elevation above the sea 5500 feet, *Strachey & Winterbottom 3* (holotype, GH!).

Setaria italica (L.) P. Beauv. fo. *brachychaeta* F.T. Hubb., Amer. J. Bot. 2: 192. 1915. Type: India. Mont. Khasia, *Hooker & Thompson s.n.* (holotype, GH!).

Setaria italica (L.) P. Beauv. var. *bruneoseta* F.T. Hubb., Amer. J. Bot. 2: 192. 1915. Type: Philippines, Mendez Nuñez, Prov. Of Cavite, Luzon, Aug. 1906, *Bureau of Science 1344 (L. Mangubat)* (holotype, GH!).

Panicum comosum Steud., Syn. Pl. Glumac. 1: 53. 1853

Setaria comosa (Steud.) Miq., Fl. Ned. Ind. 3: 468. 1857. Type: *Cuming 489* (holotype, P!; isotype, K!).

Setaria itieri Delile, Ind. Sem. Hort. Monap. Sci. Nat., ser. 3, 12: 366. 1849. Type: Egypt. "Setaria italica major. Ex aegypto semina secum attulit et communicavit clarissimus Itier, qui uberrimum opus scripsit "Voyage in la Chine," 2 vol. in -8 Paris, 1848."

Distribution. Andhra Pradesh, Bihar, Goa, Karnataka, Kerala, Himachal Pradesh, Jharkhand, Karnataka, Madhya Pradesh, Maharashtra, Manipur, Odisha, Rajasthan, Tamil Nadu, Tripura, Uttar Pradesh, Uttarakhand [China].

Habit. Annual.

741. *Setaria palmifolia* (J. Koenig) Stapf, J. Linn. Soc., Bot. 42: 186. 1914

Panicum palmifolium J. Koenig, Naturforscher (Halle) 23: 208. 1788. Type: Thailand; *J. Koenig s.n.* (US-978043 (fragm. ex FI)). (as "palmaefolium") holotype, K!; isotypes, C?, FI, US-978043! fragment ex FI).

Chamaeraphis palmifolia (J. Koenig) Kuntze, Revis. Gen. Pl. 2: 771. 1891.

Panicum palmifolium Willd. ex Poir., Encycl. Suppl. 4: 282. 1816, non J. Koenig (1788). Type: "Le lieu natal de cette plante n'est pas connu. (V.S. in herb. Desfont.)".

Chaetochloa palmifolia (Willd. ex Poir.) Hitchc. & Chase, Contr. U. S. Natl. Herb. 18: 348. 1917

Panicum plicatum Willd., Enum. Pl.: 1033. 1809, non Lam. (1791).

Panicum neurodes Schult., Mant. 2 (Schultes) 228. 1824. Type: Nepal: *Buchanan s.n.*

Panicum neurodes Schult. var. *roxburghianum* A. Braun, Index Sem. (Berol.), App.: 20. 1855. Type: 'In Nepalia (Wallich No. 8702 in herb. Nees ab E.), prope Courtallum (No. 1014) et in Bengalia prope Sillet (No. 8702 in herb. Kunth).'

Panicum sulcatum Aubl. var. *roxburghianum* (A. Braun) A. Braun ex K. Schuman & Lauterb., Fl. Schutzgeb. Südsee: 178. 1900

Chamaeraphis neurodes (Schult.) Kuntze, Rev. Gen. Pl. 2: 771. 1891.

Panicum plicatum Willd., Enum. Pl. (Willdenow) 1033. 1809, non Lam., 1791. Type: "Habitat in India orientali."

Panicum nervosum Roxb., Fl. Ind. (Carey and Wallich ed.) 1: 314. 1820, non Lam., 1791. Type: "From Nepal Dr. Buchanan sent the seed to the Botanical Garden, where the plants blossomed in October, just one year from the time the seed was sown."

Panicum lene Steud., Syn. Pl. Glumac. 1: 54. 1853. Type: Java: *Zollinger 815*.

Setaria lenis (Steud.) Miq., Fl. Ned. Ind. 3: 468. 1857

Panicum neurodes Schult. var. *lene* (Steud.) A. Braun, Index Sem. (Berol.), App.: 20. 1855

Chamaeraphis setosa (Sw.) Kuntze var. *lenis* (Steud.) Kuntze, Rev. Gen. Pl. 2: 769. 1891. Type: Java. Tjikoja, *Zollinger 815* (holotype, P; isotype, G).

Panicum sulcatum Aubl., Hist. Pl. Guiane 1: 50. 1775. Type: "Croît su bord des rivières." *Drawing by Plumier* (P).

Chaetochloa sulcata (Aubl.) Hitchc., Contr. U. S. Natl. Herb. 17: 260. 1913

Chamaeraphis sulcata (Aubl.) Kuntze, Revis. Gen. Pl. 2: 770. 1891

Setaria sulcata (Aubl.) A. Camus, Bull. Mus. Hist. Nat. (Paris) 30: 108. 1924, non Raddi, 1823

Chaetochloa palmifolia (Kuntze) Hitchcock & Chase, Contr. U.S. Natl. Herb. 18: 348, nom. superfl. 1917.

Panicum nepalense Spreng., Syst. Veg., ed. 16 [Sprengel] 1: 321. 1824 ("1825"), nom. superfl.

Chamaeraphis nepalensis Kuntze, Rev. Gen. Pl. 2: 771. 1891, nom. superfl.

Distribution. Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Himachal Pradesh, Karnataka, Kerala, Maharashtra, Manipur, Meghalaya, Mizoram, Nagaland, Odisha, Punjab, Sikkim, Tamil Nadu, Tripura, Uttar Pradesh, West Bengal [Bhutan, China, Pakistan, Sri Lanka].

Habit. Perennial.

Remarks. Taxonomic editor Zuloaga notes that citations of *Setaria paniculifera* (Steud.) E. Fourn. ex Hemsley from India are erroneous, because that species is not present in the Old World. Material listed under this name should correspond to *S. palmifolia* (J. Koenig) Stapf. See also Morrone et al. (2014). Record for Nagaland fide Naithani (1990).

742. *Setaria parviflora* (Poir.) Kerguélen, *Lejeunia*, n.s. 120: 161. 1987

Cenchrus parviflorus Poir., Encycl. 6: 52. 1804

Pennisetum parviflorum (Poir.) Trin., Gram. Panic.: 65. 1826

Chaetochloa corrugata var. *parviflora* (Poir.) Scribn. & Merr., U.S.D.A. Div. Agrostol. Rep. Agrostol. 21: 24, t. 12. 1900

Chaetochloa parviflora (Poir.) Scribn., Field Columbian Mus. Publ. 2: 26. 1900

Pennisetum indicum subvar. *parviflora* (Poir.) Leake, Z. Naturwiss. 79: 19. 1907.
Type: Puerto Rico. Without locality, *without collector* (holotype, P-LA, photo US-3049717!).

Setaria geniculata P. Beauv., Ess. Agrostogr. 51, 169, 178. 1812

Panicum geniculatum Lam., Encycl. 4: 727 [737]. 1798, non *Setaria* P. Beauv. 1812.
Type: Leeward Islands: Guadeloupe (type not located).

Pennisetum geniculatum (Lam.) Jacq., Ecl. Gram. Rar. 2: 37. t. 26. 1820

Setaria glauca (L.) P. Beauv. fo. *ictura* Buse in Miq., Pl. Jungh. 3: 29 (preprint: Feb 1854); 369 (Aug 1854)

Setaria pallide-fusca (Schumach.) Stapf & C.E. Hubb. var. *ictura* Jansen, Reinwardtia 2: 340. 1953. Lectotype: *Junghuhn s.n.* (designated by Veldkamp in sched., L-908.94-1139!).

Setaria glauca (L.) P. Beauv. ssp. *subtessellata* Buse in Miq., Pl. Jungh. 3: 29 (preprint: Feb 1854); 369 (Aug 1854). Lectotype: Indonesia. Without locality, *Junghuhn s.n.* (designated by Veldkamp, Blumea 39: 380.1994, L-903.342-138!).

Setaria fieldingii Müll. Hal, Bot. Zeitung (Berlin) 19: 323. 1861. Type: *J.F. Fielding s.n.* (isotype, SING!).

- Setaria laeta* de Wit, Bull. Jard. Bot. Buitenzorg, ser. 3, 17: 64. 1941. Type: South Africa. Cape, Amanzi, Jan 1939, *J.M. Hector-de Wit s.n. in Herb H.C.D. de Wit 601* (PRE, photo SI, L, photo SI).
- Setaria roemerii* Jansen, Reinwardtia 2: 340, f. 18. 1953. Type: Indonesia. New Guinea, without locality, *L.S.A.M. von Römer 611* (L).
- Setaria montana* Reeder, J. Arn. Arbor. 29: 304, t. 3. 1948. Type: Indonesia. New Guinea, 18 km NE of Lake Habbema, Bele River, 2000 m, very abundant on old garden lands, habit ascending, Nov 1938, *L.J. Brass 11488* (holotype, A; isotype, US-1761769!).
- Setaria pallide-fusca* (Schumach.) Stapf & C.E. Hubb. var. *hirtipes* Ohwi, Acta Phytotax. Geobot. 23: 109. 1968. Type: Thailand. Lamphun: en route from Ban Khun Tan to Doi Khun Tan, ca. 700 m alt., 4 Sept. 1967, *Tagawa, Iwatsuki, Koyama, Fukuoka, Nalampoon & Chintayungkun 9188* (holotype, KYO; isotype, A).
- Panicum berteronianum* Steud., Syn. Pl. Glumac. 1: 50. 1854
- Panicum flavum* Nees, Fl. Bras. Enum. Pl. 2(1): 238. 1829. Type: “Campis graminosis provinciae Piauiensis, tum in campis ad Joazeiro provinciae Pernambucensis et Bahiensis.” Lectotype: Brazil: Bahia; *K.F.P. von Martius s.n.* (M). LT designated by Pensiero in Darwiniana 37: 89. 1999.
- Panicum imberbe* Poir., Encycl. (Lamarck) Suppl. 4: 272. 1816. Type: “In America septentrionali & Brasilia.”
- Setaria imberbis* (Poir.) Roem. & Schult., Syst. Veg., ed. 15 bis [Roemer & Schultes]. 2: 891. 1817

Distribution. Rajasthan, Uttar Pradesh, Uttarakhand [also in North America, South America]. Naturalized.

Habit. Perennial.

Remarks. Probably native to the New World, but possibly Africa; see Kellogg et al. (2009). Widespread and weedy.

743. *Setaria plicata* (Lam.) T. Cooke, Fl. Bombay 2: 919. 1908

- Panicum plicatum* Lam., Tabl. Encycl. 1: 171. no. 892. 1791. Type: “Cette espece est cultivee au Jardin du Museum on la dit originaire de l’Isle-de-france; d’autres pensent qu’elle a été envoyée de saint Domingue.” Cultivated in Paris, origin uncertain; *Anonymous s.n.* (P). Type: *Anon.* in Herb. Lamarck (‘cult. in horto Reg. parisiensis’) (holotype, P, IDC microfiche 6207, fiche 689/19; isotype, B, *Herb. Willdenow 18734/3*, IDC microfiche 7440; US, fragm.).
- Panicum excurrens* Trin., Sp. Gram. [Trinius] 1: t. 89. 1827. Type: Nepal. Without locality, *Wallich s.n.* (holotype, LE; isotype, G, W).
- Setaria excurrens* (Trin.) Miq., Ann. Mus. Bot. Lugduno-Batavum 2: 275. 1867.
- Setaria mauritiana* Spreng., Syst. Veg., ed. 16 [Sprengel] 1: 305. 1824 (“1825”). Type: Mauritius. Without locality, *Bory de Saint-Vincent s.n.* (holotype, B-W-18814!).

Panicum neurodes Schult. var. *blepharoneuron* A. Braun, App. Gen. & Sp. Nov. Hort. Reg. Berol. 20. 1856 ("1855"). Type: India; Numer. List [Wallich] no. 8703(B). holotype, B; isotypes, K, L!).

Setaria palmifolia Stapf var. *blepharoneuron* (A. Braun) Veldkamp, Floribunda 1(6): 22. 1988

Distribution. Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Chhattisgarh, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Meghalaya, Odisha, Tamil Nadu, Tripura, Uttar Pradesh, Uttarakhand, West Bengal [China, Nepal, Sri Lanka].

Habit. Perennial.

744. *Setaria pumila* (Poir.) Roem. & Schult., Syst. Veg., ed. 15 bis [Roemer & Schultes]. 2: 891. 1817

Panicum pumilum Poir., Encycl. (Lamarck) Suppl. 4: 273. 1816. Type: "J'ignore le lieu natal de cette plante. (V.s. in herb. Desfont)." locality unknown but probably France or North Africa; *Desfontaines s.n.* (FI, P).

Panicum pallide-fusum Schumach., Beskr. Guin. Pl. 78. 1827. Type: Ghana; *Thonning s.n.*

Setaria glauca var. *pallide-fusca* (Schumacher) T. Koyama, J. Jap. Bot. 37: 237. 1962

Setaria pumila var. *pallide-fusca* (Schumacher) B.K. Simon, Austrobaileya 2: 22. 1984. Type: Ghana. Without locality, *P. Thonning s.n.* (C, photo BM; isotype and drawing, K!).

Setaria pallide-fusca (Schumach.) Stapf & C.E. Hubb., Bull. Misc. Inform. Kew 1930: 259. 1930

Setaria glauca sensu Alston in Trimen, Handb. Fl. Ceylon 6(Suppl.): 326. 1931, non (L.) P. Beauv., 1812

Panicum rubiginosum Steud., Syn. Pl. Glumac. 1: 50. 1853

Setaria rubiginosa (Steud.) Miq., Fl. Ned. Ind. 3: 467. 1857

Setaria aurea var. *rubiginosa* (Steud.) Peter, Repert. Spec. Nov. Regni Veg. Beih. 40: 233. 1931. Type: Philippines. Without locality, *H. Cuming 551* (holotype, P; isotypes, G, K, L, MO).

Distribution. Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Gujarat, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Mizoram, Nagaland, Odisha, Rajasthan, Tamil Nadu, Tripura, Uttar Pradesh, West Bengal [Burma, China, Sri Lanka].

Habit. Annual.

745. *Setaria punctata* (Burm. f.) Veldkamp, Blumea 39(1-2): 381. 1994

Panicum punctatum Burm. f., Fl. Ind. (N. L. Burman) 26. 1768. Lectotype: India; *Plukenet s.n.* (BM). LT designated by Clayton & Renvoize in Polhill (ed.), Fl. Trop. E. Africa, Gramineae 3: 672. 1982.

Paspalidium punctatum (Burm. f.) E.G. Camus & A. Camus, Fl. Indo-Chine [P.H. Lecomte et al.] 7: 419. 1922

Panicum mucronatum Roth, Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 425. 1817.
Type: India; *Benj. Heyne s.n.* (B). “Roth Nov. Plant Spec. Mss” cited.

Paspalum aquaticum Masamune & Syozi, Trans. Nat. Hist. Soc. Taiwan 34: 303. 1944.
Type: Taiwan, *without collector s.n.* (holotype, TAI).

Distribution. Andhra Pradesh, Assam, Bihar, Chhattisgarh, Gujarat, Jharkhand, Jammu and Kashmir, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Meghalaya, Odisha, Punjab, Rajasthan, Tamil Nadu, Tripura, Uttar Pradesh, West Bengal [Bangladesh, China, Myanmar].

Habit. Perennial.

746. *Setaria sphacelata* (Schumach.) Stapf & C.E. Hubb in D. Prain, Fl. Trop. Afr. 9: 795. 1930

Panicum sphacelatum Schumach., Beskr. Guin. Pl. 78–79. 1827. Type: Ghana; *Thonning s.n.* (C, K, photo SI).

Chaetochloa aurea (Schumach.) Hitchc., Proc. Biol. Soc. Wash. 29: 128. 1916

Panicum chrysanthum Steud., Syn. Pl. Glumac. 1: 50. 1853. Type: “Hochst hrbr. Un. It. 409.”

Panicum rudimentosum Steud. Syn. Pl. Glumac. 1: 51. 1853. Type: “Leprieur legit in Senegalia.”

Setaria aurea Hochst. ex A. Braun, Flora 24: 276. 1841. Type: Cultivated at Karlsruhe from seed collected by Schimper in Ethiopia; *Schimper 409* (MO-IT).

Distribution. Tamil Nadu [Sri Lanka].

Habit. Perennial.

747. *Setaria sulcata* Raddi, Agrostogr. Bras. [Raddi] 50. 1823

Panicum poirotianum Schult., Mant. 2 (Schultes) 229. 1824

Setaria poirotiana (Schult.) Kunth, Révis. Gramin. 1: 47. 1829

Chaetochloa poirotiana (Schult.) Hitchc., Contr. U. S. Natl. Herb. 22: 159. 1920

Panicum sulcatum Bertol., Opusc. Sci. 14: 230. 1820, non Aubl., 1775. Type: “Habitat in Brasilia.” Brazil: Rio de Janeiro; Raddi 17 (FI) (FI, K, US fragment & photo ex FI).

Panicum elongatum Poir., Encycl. (Lamarck) Suppl. 4: 278. 1816, non Salisb., 1796, nec Pursh 1813. Type: “Cette plante croit au Bresil”; *Desfontaines s.n.* (FI, K, P, fragment, US-80632).

Panicum phyllomacrum Steud., Syn. Pl. Glumac. 1: 53. 1853. Type: Gabon. Without locality, *E. Jardin s.n.* (holotype, P, photo SI).

- Setaria phyllomacra* (Steud.) T. Durand & Schinz, Consp. Fl. Afr. 5: 773. 1895.
- Panicum prolisetum* Steud., Syn. Pl. Glumac. 1: 52. 1853. Type: São Tomé and Príncipe. Without locality and collector (type, P, fragment and photo SI).
- Setaria proliseta* (Steud.) T. Durand & Schinz, Consp. Fl. Afr. 5: 774. 1894.
- Panicum megaphyllum* Steud., Syn. Pl. Glumac. 1: 53. 1853. Type: Gabon. Without locality, 1846, *E. Jardin* 26 (holotype, P, photo SI; isotype, G, photo SI, US-80795, fragment ex P).
- Setaria megaphylla* (Steud.) T. Durand & Schinz, Consp. Fl. Afr. 5: 773. 1894.
- Setaria macrophylla* Andersson, Naturw. Reise Mossambique 2: 550. 1854. Type: Mozambique. "An den lichten Randern hoher Walder, in Marschboden... in der Nahe von Boror, 18' S.B.", *A. Peter* 1842-48 (holotype, B, destroyed).
- Panicum plicatile* Hochst., Flora 38: 198. 1855. Type: Ethiopia. Without locality, 1853, *G.W. Schimper in Herb. Buchinger* 1456 (BR, photo SI, G, photo SI, K, photo SI, P, photo SI, STR).
- Setaria plicatilis* (Hochst.) Hack. ex Engler, Abh. Konigl. Akad. Wiss. Berlin 2: 121. 1891.
- Setaria oligochaete* Schum. in Engler, Pflanzenw. Ost-Afrikas C: 105. 1895. Type: Tanzania. Kilimandscharo, 1000 m, 26 Dec 1893, *G. Volken* 1605 (B, photo SI, E, photo SI, G, photo SI, K).
- Panicum oligochaete* (Schum.) Kneucker, Allg. Bot. Z. Syst 21: 28. 1915.
- Panicum sulcatum* var. *stenophyllum* Pilg., Bot. Jahrb. Syst. 33: 46. 1902. Syntypes: Togo. Bismarckburg, 1889, *Kling* 225 (B); Angola. Huilla, May 1895, *Antunes* 31 (B).
- Panicum plicatile* var. *glabrescens* Chiov., Ann. Bot. (Rome) 8: 31. 1903. Lectotype (designated here): Eritrea. Amasen, Asmara, 2400 m, Aug- Sep 1892, *V. Ragazzi* 43 (FT, photo SI).
- Panicum plicatile* var. *pilosum* Chiov., Annuario Reale Ist. Bot. Roma 8: 31. 1903. Type: Eritrea. Mensa, Rora Ualicaué (Ovest), 1900 m, 8 Jan 1893, *A. Terracciano & A. Pappi* 670 (FI, photo SI).
- Setaria caudula* Stapf, Fl. Trop. Afr. 9: 845. 1930. Type: Uganda. Kipayo, 4000 ft., Mar 1915, *R.A. Dümmer* 2416 (BR, fragment, photo SI, K, photo SI, WAG).
- Setaria chevalieri* Stapf & C.E. Hubb., Fl. Trop. Afr. 9: 842. 1930. Lectotype (designated here): Gabon. Mayumba, Jan 1904, *A.J.B. Chevalier* 11282 (P, photo SI).
- Setaria megaphylla* var. *chevalieri* (Stapf & C.E. Hubb.) Berhaut, Fl. Senegal 2: 401. 1954.
- Setaria acuta* Stapf & C.E. Hubb., Fl. Trop. Afr. 9: 846. 1930. Type: Ethiopia. Amba Sea, 2300 m, 12 Mar 1863, *Schimper* 789 (K, photo SI, PRE, photo SI).
- Setaria insignis* de Wit, Bull. Jard. Bot. Buitenzorg, ser. 3, 17: 13, 15. 1941. Type: South Africa. Cape Province, Port St. Johns, S.E. Cape, Eagle's Nest, slope of Western Gate, 7 Feb 1924, *C. Howlett* 35 (holotype, PRE, photo SI, isotype, L, fragment, photo SI).
- Setaria natalensis* de Wit, Bull. Jard. Bot. Buitenzorg, ser. 3, 17: 19. 1941. Type: South Africa. Natal, Kwazulu-Natal, *J. Buchanan* 268 (holotype, NH; isotype, L, fragment, photo SI).

Type. “In marginibus fossarum udarum prope Catumby, non procul ad urbe Rio de Janeiro.” Brazil: Rio de Janeiro; *Raddi* 17 (FI).

Distribution. Kerala, Tamil Nadu, Uttarakhand [also in Africa, North America, South America].

Habit. Perennial.

Remarks. Probably native to the Americas.

748. *Setaria verticillata* (L.) P. Beauv., *Ess. Agrostogr.* 51, 171, 178. 1812

Panicum verticillatum L., *Sp. Pl.*, ed. 2. 1: 82. 1762. Type: “Habitat in Europa australi & Oriente.” Lectotype: Herb. Linn. No. 80.7 (LINN). LT designated by Sherif & Siddiqi in El-Gadi (ed.), *Fl. Libya* 145: 296. 1988.

Chaetochloa verticillata (L.) Scribn., *Bull. Div. Agrostol. U.S.D.A.* 4: 39. 1897

Ixophorus verticillatus (L.) Nash, *Bull. Torrey Bot. Club* 22: 422. 1895

Pennisetum verticillatum (L.) R. Br. ex Roem. & Schult., *Syst. Veg.*, ed. 15 bis [Roemer & Schultes]. 2: 488. 1817 in syn.

Panicum adhaerens Forssk., *Fl. Aegypt.-Arab.* 20. 1775. Type: “Hadie” Lectotype: Yemen, Al Hadiyah; 1763; *Forsskål s.n.* (LD). LT designated by Veldkamp in *Blumea* 39: 383. 1994.

Setaria adhaerens (Forssk.) Chiov., *Nuovo Giorn. Bot. Ital.* 26: 77. 1919

Panicum aparine Steud., *Syn. Pl. Glumac.* 1: 52. 1853. Type: “Jardin legit in Senegambia, Despreaux in Ins. Canar.”

Pennisetum respiciens A. Rich., *Tent. Fl. Abyss.* 2: 379. 1850–1851. Type: Ethiopia: “Crescit in convalle fluvii Tacazze prope Tchelatckanne, mensibus Augusto ad Octobrem (Quartin Dillon et Schimper).”

Panicum rottleri (Spreng.) Nees, *Fl. Afr. Austral. Ill.* 53. 1841, non Kunth 1829

Panicum asperum Lam., *Fl. Franc. (Lamarck).* 3: 577. 1779 (“1778”), nom. superfl. & illeg. for *Panicum verticillatum*

Setaria teysmannii Miq., *Fl. Ned. Ind.* 3: 468. 1857. (“*teysmanni*”). Type: Java., Besuki, Sumberwaru, *Teysmann s.n.* (holotype, U!).

Panicum adhaerens Forssk. var. *miquelii* A. Braun, *Append. Gen. Sp. Hort. Berol.* 1871: 7. 1872

Setaria verticillata P. Beauv. fo. *miquelii* (A. Braun) A. Braun ex Backer in Heyne, *Nutt. Pl. Ned.-Ind.* 1: 205. 1922

Panicum verticillatum L. fo. *miquelii* (A. Braun) A. Braun ex Backer in Heyne, *Nutt. Pl. Ned.-Ind.*, ed. 2, 1: 204. 1927. Type: Java, 25 Nov 1843, *Zollinger* 2729 (isotypes, G, P).

Distribution. Andhra Pradesh, Assam, Bihar, Chhattisgarh, Delhi, Goa, Gujarat, Himachal Pradesh, Jammu and Kashmir, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Rajasthan, Tamil Nadu, Uttar Pradesh [China, Pakistan].

Habit. Annual.

749. *Setaria viridis* (L.) P. Beauv., Ess. Agrostogr. 51, 171, 178. 1812

Panicum viride L., Syst. Nat., ed. 10. 2: 870. 1759. Type: "Habitat [in Europa australi.] Sp. Pl., ed. 2, 1: 83. 1762" Lectotype: Browne, Herb. Linn. No. 80.12 (LINN). LT designated by Meikle in Fl. Cyprus 2: 1861. 1985.

Distribution. Delhi, Jammu and Kashmir, Meghalaya, Maharashtra, Tamil Nadu, Uttar Pradesh, Uttarakhand, West Bengal [China, Pakistan].

Habit. Annual.

***Spinifex* L., Mant. Pl. Altera 163, 300. 1771**

Type. *Spinifex squarrosus* L.

750. *Spinifex littoreus* (Burm. f.) Merr., Philipp. J. Sci., C 7: 229. 1912

Stipa littorea Burm. f., Fl. Ind. (N. L. Burman) 29. 1768. Type: "Rompot laut Javanis" Rheed. Hort. Malab. 12. P. 143. t. 75.

Spinifex squarrosus L., Mant. Pl. Altera 300. 1771. Type: "Habitat in Indiae orientalis arenosis maritimis." Lectotype: Herb. Linn. No. 1216.2 (LINN). LT designated by Heyligers in Cafferty et al. (ed.), Taxon 49: 257. 2000.

Stipa spinifex L., Mant. Pl. 34. 1767. Type: "Habitat in Indiae arenosis maritimis." Lectotype = "Cyperus littoreus echinato capite" in Rumphius, Herb. Amboin., 6: 6, t. 2, f. 2, 1750. LT designated by Heyligers in Cafferty et al. (ed.), Taxon 49: 257. 2000.

Distribution. Andaman and Nicobar Islands, Andhra Pradesh, Goa, Gujarat, Karnataka, Kerala, Lakshadweep, Maharashtra, Odisha, Tamil Nadu, West Bengal [China, Myanmar, Sri Lanka].

Habit. Not recorded.

***Stenotaphrum* Trin., Fund. Agrost. (Trinius) 175. 1820**

Type. *Stenotaphrum glabrum* Trin., nom. superfl. (*Panicum dimidiatum* L., *Stenotaphrum dimidiatum* (L.) Brongn.).

751. *Stenotaphrum dimidiatum* (L.) Brongn., Voy. Monde, Phan. 2(2): 127. 1831

Panicum dimidiatum L., Sp. Pl. 1: 57. 1753. Type: "Habitat in India." Lectotype: Herb. Linn. No. 80.25 (LINN). LT designated by Renvoize in Cafferty et al. (ed.), Taxon 49: 253. 2000.

Stenotaphrum glabrum Trin., Fund. Agrost. (Trinius) 176. 1820

Stenotaphrum koenigii Schrank, Flora 7(2), Beil. 1: 28. 1824. Type: India; 1784; *Koenig s.n.*

Stenotaphrum secundatum sensu Alston, Handb. Fl. Ceylon 6(Suppl.): 327. 1931, non *S. secundatum* (Walter) Kuntze, 1891

Distribution. Bihar, Karnataka, Kerala, Maharashtra, Meghalaya, Tamil Nadu, West Bengal [Sri Lanka].

Habit. Perennial.

***Trachys* Pers., Syn. Pl. (Persoon) 1: 85. 1805**

Type. *Trachys mucronata* Pers., nom. illeg. (*Cenchrus muricatus* L., *Trachys muricata* (L.) Trin.

752. *Trachys copeana* Kabeer & V.J. Nair, Kew Bull. 62(3): 503–505. f. 1. 2007

Type. India: Tamil Nadu, Kanyakumari District, between Kollengode and Chinnathurai, near Marthandam; September 18, 2003; *K.A.A. Kabeer 117134* (CAL).

Distribution. Tamil Nadu.

Habit. Annual or perennial.

753. *Trachys deccanensis* M. Anil Kumar & B.R.P. Rao. Rheedeia 27(2): 79. 2017

Type. India, Andhra Pradesh, Kurnool district, Kadivella near Yemmiganur, 16 November 2016, B. Ravi Prasad Rao, K. V. Subbaiah & M. Anil Kumar 52099 (holotype: SKU; isotype: CAL)

Distribution. Andhra Pradesh.

Habit. Annual.

754. *Trachys muricata* (L.) Pers., Syn. Pl. (Persoon) 1: 85. 1805 (as “mucronata”)

Cenchrus muricatus L., Mant. Pl. Altera 302. 1771. Type: “Habitat in India orientali. Koenig.” Neotype: India: Tamil Nadu, Madras, South Arcot, Chidambarum, Kille, Anuvampattu; *Venugopal in RHT No. 21360* (K). Neotype designated by Renvoize in Cafferty et al. (ed.), Taxon 49: 249. 2000.

Trachyozus muricata (L.) Steud., Syn. Pl. Glumac. 1: 112. 1854

Panicum squarrosum Retz., Observ. Bot. (Retzius) 4: 15. 1786–1787. Type: “In arenosis Malabaricae tempore pluvioso frequens”; *Koenig s.n.*

Distribution. Andhra Pradesh, Gujarat, Karnataka, Kerala, Odisha, Tamil Nadu [Myanmar, Sri Lanka].

Habit. Annual.

Remarks. Persoon misspelled the Linnaean epithet “muricata” as “mucronata” and used the latter in his comb. nov. (a correctable error).

755. *Trachys narasimhanii* Ravich., Rheedea 23(1): 22. 2013.

Type. India: Tamil Nadu, Ennore, VGP Wonderland, 15 – 22 m, 28 November 1992, P. Ravichandran & D. Narasimhan 408 (holotype: MH; isotype: K, MCCH, SPKCESH).

Distribution. Tamil Nadu.

Habit. Annual.

***Tricholaena* Schrad., Mant. 2 (Schultes) 8, 163. 1824**

Lectotype. *Tricholaena micrantha* Schrad. (*Saccharum teneriffae* L. f., *Tricholaena teneriffae* (L. f.) Link.) LT designated by Hitchcock in Bull. U.S.D.A. 772: 241. 1920.

756. *Tricholaena teneriffae* (L.f.) Link, Handbuch [Link] 1: 91. 1829

Saccharum teneriffae L.f., Suppl. Pl. 106. 1782 (“1781”). Type: “Habitat in Teneriffa”;
Fr. Masson s.n. (LINN).

Melinis teneriffae (L.f.) Hack., Oesterr. Bot. Z. 51: 464. 1901

Panicum plumosum Presl, Fl. Sicul. (Presl) 1: 43(XLIII). 1826

Panicum saccharoides Trin., Gram. Panic. [Trinius] 245. 1826

Agrostis plumosa Ten., Fl. Napol. Suppl. 1: 49. 1811. Type: Italy: Naples, presumably
Tricholaena micrantha Schrad., Mant. 2 (Schultes) 163. 1824, nom. superfl. & illeg.
for *Saccharum teneriffae*

Distribution. Karnataka, Punjab [Pakistan].

Habit. Perennial.

***Urochloa* P. Beauv., Ess. Agrostogr. 52. 1812**

Type. *Urochloa panicoides* P. Beauv.

757. *Urochloa brizantha* (Hochst. ex A. Rich.) R.D. Webster, The Australian Paniceae (Poaceae) 223. 1987 var. *brizantha*

Panicum brizanthum Hochst. ex A. Rich., Tent. Fl. Abyss. 2: 363. 1850–1851. Type: Ethiopia: Tigre: “In declivibus meridionalis partis mediae et superioris monte Sellenda prope Adouba.” October 3, 1837; *Schimper* 89 (P). LT designated by Veldkamp in *Blumea* 41(2): 417. 1996.

Brachiaria brizantha (Hochst. ex A. Rich.) Stapf, Fl. Trop. Afr. [Oliver et al.] 9: 531. 1919

Distribution. Kerala [Papua New Guinea, Africa, North America, South America].

Habit. Perennial.

Remarks. Record for India fide Naithani (1990). It is unclear if this taxon actually occurs in India or if this is a misapplication based on *Brachiaria decumbens* sensu Senaratna.

758. *Urochloa brizantha* (Hochst. ex A. Rich.) R.D. Webster var. *ciliata* (Basappa & Muniy.) Ashalatha & V.J. Nair, Bulletin of the Botanical Survey of India 35(1–4): 29. 1993

Brachiaria brizantha (Hochst. ex A. Rich.) Stapf var. *ciliata* Basappa & Muniy., Proc. Indian Natl. Sci. Acad., B 49(4): 379. 1983

Distribution. Karnataka [Sri Lanka]. Native to Africa.

Habit. Perennial.

Remarks. Record for India fide Naithani (1990).

759. *Urochloa chennaveeraiana* (Basappa & Muniy.) Ashalatha & V.J. Nair, Bulletin of the Botanical Survey of India 35(1–4): 28. 1993

Brachiaria chennaveeraiana Basappa & Muniy., Proc. Indian Natl. Sci. Acad., B 49(4): 378. 1983

Distribution. Rajasthan.

Habit. Not recorded.

760. *Urochloa decumbens* (Stapf) R.D. Webster, Austral. Paniceae (Poaceae) 234. 1987

Brachiaria decumbens Stapf, Fl. Trop. Afr. [Oliver et al.] 9: 528. 1919. Syntypes: Uganda: Mengo District; *Dummer* 1070 (K). Tanzania, Bukoba District; *Grant* 488 (K).

Brachiaria brizantha sensu Senaratna, Grasses of Ceylon (Perad. Man. No. 8) 145. 1956, non Hochst. ex A. Rich., 1851

Distribution. Kerala, Rajasthan. Native to Africa.

Habit. Perennial.

Remarks. Record for Rajasthan fide Naithani (1990).

761. *Urochloa deflexa* (Schumach.) H. Scholz, Bull. Mus. Natl. Hist. Nat., B, Adansonia Sér. 4, 11(4): 443. 1990

Panicum deflexum Schumach., Kongel. Danske Vidensk. Selsk. Naturvidensk. Math. Afh. 3: 83–84. 1827

Brachiaria deflexa (Schumach.) C.E. Hubb. ex Robyns Bull. Jard. Bot. Etat 9: 181. 1932 (“1931”)

Pseudobrachiaria deflexa (Schumach.) Launert, Mitt. Bot. Staatssamml. München 8: 158. 1970

Brachiaria regularis (Nees) Stapf, Fl. Trop. Afr. [Oliver et al.] 9: 544. 1919

Panicum regulare Nees, Fl. Afr. Austral. Ill. 41. 1841, in obs. Type: “Patria Guinea. Vidi in Herbario Lehmanniano.”

Distribution. Andhra Pradesh, Bihar, Madhya Pradesh, Maharashtra, Punjab, Rajasthan, Tamil Nadu, Uttar Pradesh [also in Saudi Arabia, Africa].

Habit. Annual.

Remarks. Records for Andhra Pradesh, Madhya Pradesh, Maharashtra, Punjab, Tamil Nadu, and Uttar Pradesh fide Naithani (1990).

762. *Urochloa distachyos* (L.) T.Q. Nguyen, Novosti Sist. Vyssh. Rast. 1966: 13. 1966 (as “distachya”)

Panicum distachyon L., Mant. Pl. Altera 183–184. 1771. Type: “Habitat in India orientali. Koenig.” Lectotype: Herb. Linn. No. 80.41 (LINN). LT designated by Henrard in Monogr. Digitaria 191. 1950

Brachiaria distachyos (L.) Stapf, Fl. Trop. Afr. [Oliver et al.] 9: 565. 1919 in obs. (as “distachya”)

Digitaria distachyos (L.) Pers., Syn. Pl. Glumac. 1: 41. 1853 (as “distachya”), cited as synonym of *Panicum bicornis* Sieber ex Steud.

Panicum miliiforme J. Presl in C. Presl, Reliq. Haenk. 1(4–5): 300. 1830. Type: “Habitat in Luzonia.” Philippine Islands: Luzon; *Haenke s.n.* (PR).

Brachiaria miliiformis (J. Presl) A. Chase, Contr. U.S. Natl. Herb. 22(1): 35. 1920

Brachiaria subquadripara (Trin.) Hitchc. var. *miliiformis* (J. Presl) S.L. Chen & Y.X. Jin, Acta Phytotax. Sin. 22(6): 472. 1984

Brachiaria miliiformis (J. Presl) Chase, Contr. U.S. Natl. Herb. 22(1): 35. 1920

Distribution. Andaman and Nicobar Islands, Andhra Pradesh, Assam, Arunachal Pradesh, Bihar, Chhattisgarh, Delhi, Gujarat, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Odisha, Punjab, Rajasthan, Tamil Nadu, Tripura, Uttar Pradesh, West Bengal [China, Myanmar, Nepal, Pakistan, Sri Lanka].

Habit. Annual.

763. *Urochloa hybrida* (Basappa & Muniy.) Ashalatha & V.J. Nair, Bull. Bot. Surv. India 35(1–4): 28. 1997 (“1993”)

Brachiaria hybrida Basappa & Muniy., Proc. Indian Natl. Sci. Acad., B, 49(4): 379. 1983

Distribution. Karnataka.

Habit. Not recorded.

764. *Urochloa kurzii* (Hook. f.) T.Q. Nguyen, Novosti Sist. Vyssh. Rast. 1966: 13. 1966

Panicum kurzii Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 38. 1896. Type: Seebpore; *Kurz s.n.* (K). LT designated by Veldkamp in *Blumea* 41(2): 422. 1996.

Brachiaria kurzii (Hook. f.) A. Camus, Fl. Indo-Chine [P.H. Lecomte et al.] 7: 438. 1922

Brachiaria lanceata Ohwi, Bull. Tokyo Sci. Mus. 18: 4. 1947. Type: Indonesia: Java, Jawa Timur, Kangean; 1920; *Backer* 27829 (BO).

Distribution. Andhra Pradesh, Bihar, Karnataka, Madhya Pradesh, Odisha, Rajasthan, Tamil Nadu, Uttar Pradesh, West Bengal [also in Indonesia, Australia].

Habit. Annual.

765. *Urochloa lata* (Schumach.) C.E. Hubb., Bull. Misc. Inform. Kew 1934: 112. 1934 var. *lata*

Panicum latum Schumach., Beskr. Guin. pl. 61. 1827. Type: Ghana; *Thonning* 353

Brachiaria lata (Schumach.) C.E. Hubb., Hooker’s Icon. Pl. 34: sub. t. 3363. 1938

Panicum insculptum Steud., Syn. Pl. Glumac. 1: 49. 1853. Type: Guinea; *Jardin s.n.*

Urochloa insculpta (Steud.) Stapf, Fl. Trop. Afr. [Oliver et al.] 9: 599. 1920

Distribution. Rajasthan, Uttar Pradesh. Native to Africa.

Habit. Annual.

766. *Urochloa lata* (Schumach.) C.E. Hubb. var. *pubescens* (C.E. Hubb.) E.A. Kellogg, comb. nov.

urn:lsid:ipni.org:names:77212129-1

Brachiaria lata (Schumach.) C.E. Hubb. var. *pubescens* C.E. Hubb., Kew Bull. 4: 125.

1949. Type. Nigeria: Sokoto Province, Sokoto; July 30, 1910; *Dalziel* 477

Distribution. Rajasthan [also in Africa].

Habit. Annual.

Remarks. Record for India fide Naithani (1990). The above combination is made here to transfer *Brachiaria lata* (Schumach.) C.E. Hubb. var. *pubescens* C.E. Hubb. to *Urochloa* as a variety of *U. lata* (Schumach.) C. E. Hubb.

767. *Urochloa mosambicensis* (Hack.) Dandy, J. Bot. 69(2): 54. 1931

Panicum mosambicense Hack., Bol. Soc. Brot. 6: 140. 1888. Type: "Prope Moçambique." Mozambique; 1886; *M.R. de Carvalho* 19 (W).

Echinochloa notabilis (Hook. f.) Rhind, Grasses of Burma 50. 1945 (as "notabile")

Panicum notabile Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 32. 1896. Type: Burma, Petroleum wells of the Irawaddi; *Wallich* s.n.

Distribution. Rajasthan, Tamil Nadu [Myanmar]. Native to Africa.

Habit. Perennial.

Remarks. Record for Rajasthan fide Naithani (1990).

768. *Urochloa munaie* (Basappa) Ashalatha & V.J. Nair, Bull. Bot. Surv. India 35(1–4): 29. 1997 ("1993")

Brachiaria munaie Basappa, Proc. Indian Acad. Sci. Pl. Sci. 93(1): 53. f. 1. 1984. Type: India: Tamil Nadu, Madurai Kamaraj University Campus; December 20, 1979; *Basappa* 3001 (CAL).

Distribution. Andhra Pradesh, Tamil Nadu.

Habit. Annual.

Remarks. Record for Tamil Nadu fide Naithani (1990).

769. *Urochloa mutica* (Forssk.) T.Q. Nguyen, Novosti Sist. Vyssh. Rast. 3: 13. 1966

Panicum muticum Forssk., Fl. Aegypt.-Arab. 20. 1775. Type: Egypt: "Rosettae" (Rashid); November 2–6, 1761; *Forsskal* 86 (C).

Brachiaria mutica (Forssk.) Stapf, Prain, Fl. Trop. Afri. 9: 526. 1919

Brachiaria purpurascens (Raddi) Henrard, *Blumea* 3(3): 434. 1940

Panicum amphibium Steud., *Syn. Pl. Glumac.* 1: 61. 1853. Type: Java; *Zollinger no.* 416 (P).

Panicum barbinode Trin., *Sp. Gram.* [Trinius] 3(27): t. 318. 1831. Type: “Figura ad specimen Bahiense.” Brazil: Bahia; 1831; *Riedel in Herb. Trinus 0601.01* (LE).

Panicum punctulatum Arn. ex Steud., *Syn. Pl. Glumac.* 1: 62. 1853. Type: Sri Lanka; *Wight Herb. no.* 2039

Panicum purpurascens Raddi, *Agrostogr. Bras.* [Raddi] 47–48. 1823. Lectotype: Brazil: Rio de Janeiro “Multum habet affinitatem cum precedenti cum quo mixtum invenitur, licet etiam sponte oriatur”; *G. Raddi s.n.* (PI). LT designated by Baldini & Longhi-Wagner *Taxon* 55(2): 479. 2006

Panicum pictigluma Steud., *Syn. Pl. Glumac.* 1: 73. 1853, nom superfl. & illeg. for *P. purpurascens* Raddi

Panicum molle sensu Griseb., *Fl. Brit. W. I.* (Grisebach) 547. 1864, non Sw., 17

Distribution. Andhra Pradesh, Assam, Bihar, Delhi, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Tamil Nadu, Uttar Pradesh, West Bengal [also in Indonesia, Africa, Australia, North America, South America].

Habit. Annual.

770. *Urochloa nilagirica* (Bor) Ashalatha & V.J. Nair, *Bull. Bot. Surv. India* 35(1–4): 29. 1997 (“1993”)

Brachiaria nilagirica Bor, *Bot. Tidsskr.* 67(4): 325. 1973. Type: India: Tamil Nadu, Nilgiri Hills; *Perrottet 1357* (K).

Distribution. Tamil Nadu.

Habit. Not recorded.

771. *Urochloa oligotricha* (Fig. & De Not.) Henrard, *Blumea* 4(3): 502. 1941

Panicum oligotrichum Fig. & de Not., *Agrost. Aegypt.* 17, t. 10. 1853. Type: “ad amnem coeruleum in Nubia superiore.” Sudan: Nubia; *Figari s.n.*

Helopus bolbodes Hochst. ex Steud., *Syn. Pl. Glumac.* 1: 100. 1854. Type: Ethiopia; *Schimper 2021* (P) “Abyssin; Hochst Hrbr. Abyss. nr. 2021”

Urochloa bolbodes (Hochst. ex Steud.) Stapf, *Fl. Trop. Afr.* [Oliver et al.] 9(4): 593. 1920

Eriochloa bolbodes (Hochst. ex Steud.) Schweinf., *Bull. Herb. Boissier* 2 (App. 2): 17. 1894

Panicum bolbodes (Hochst. ex Steud.) Aschers., *Beitr. Fl. Aethiop.* 300. 1867

Panicum numidianum sensu Hack., *Bull. Herb. Boissier* 4(App. 3): 14. 1896, non Lam., 1791

Distribution. India [Africa].

Habit. Perennial.

Remarks. Distribution in India not recorded.

772. *Urochloa ovalis* (Stapf) Zon, Blumea 64(3): 215. 2019

Brachiaria ovalis Stapf, Fl. Trop. Afr. [Oliver et al.] 9: 546. 1919. Syntypes: Somalia: Bohotle; *Appleton s.n.* (K). Somalia: Haud; *Thompson s.n.* (K). Ethiopia: Habab; *Hildebrandt 337* (K). Ethiopia; *Salt s.n.* (BM).

Distribution. Punjab [Pakistan].

Habit. Annual.

Remarks. The above combination is made here to transfer *Brachiaria ovalis* Stapf to *Urochloa*.

773. *Urochloa panicoides* P. Beauv., Ess. Agrostogr. 53. t. 11. f. 1. 1812

Panicum javanicum Poir., Encycl. (Lamarck) Suppl. 4: 274. 1816. Type: "Cette plante croit a l'île de Java (V.s. in herb. Desfont.)"; *Desfontaines s.n.*

Urochloa marathensis Henrard, Meded. Rijks-Herb. 43: 2. 1922. Type: "Hab. India orient: Southern Maratha Country and North Canara, Bombay Presidency, collected and presented by A.P. Young, Esq. I.N. Anno 1884 ex Herbario Musie Britannici in Herb. Lugd. Batav. Sub no. 90.92-2300."

Urochloa panicoides P. Beauv. var. *marathensis* (Henrard) Bor, Grasses Burma, Ceylon, India and Pakistan 373. 1960

Urochloa panicoides P. Beauv. var. *velutina* (Henrard) Bor, Grasses Burma, Ceylon, India and Pakistan 373. 1960

Urochloa marathensis Henrard var. *velutina* Henrard, Meded. Rijks-Herb. 43: 2. 1922. Type: "Hab. cum praecedente Young legit in Herb. Lugd. Bat. Sub no. 908.83-143."

Urochloa panicoides P. Beauv. var. *pubescens* (Kunth) Bor, Grasses Burma, Ceylon, India and Pakistan 372. 1960

Urochloa pubescens Kunth, Révis. Gramin. 1: 31. 1829. Type: "Insulae Mascarenae, Nova Hollandia."

Type. Mauritius: Isle de France, to about 4800 ft., mainly in cultivated land; *Jussieu s.n.* (P-type is lost). Neotype: P. Beauv., Ess. Agrost. pl. 11. f. 1. 1812. NT designated by Veldkamp in Blumea 41: 433. 1996.

Distribution. Andhra Pradesh, Assam, Bihar, Chhattisgarh, Gujarat, Himachal Pradesh, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Rajasthan, Tamil Nadu, Uttar Pradesh, Uttarakhand, West Bengal [Bhutan, China, Myanmar, Nepal, Pakistan, Sri Lanka].

Habit. Annual.

774. *Urochloa paspaloides* J. Presl in C. Presl, Reliq. Haenk. 1(4–5): 318. 1830

Brachiaria paspaloides (J. Presl) C.E. Hubb., Hooker's Icon. Pl. 34: sub. t. 3363. 1938
Panicum ambiguum Trin., Mém. Acad. Imp. Sci. Saint-Petersbourg, Sér. 6, Sci. Math.,
 Seconde Pt. Sci. Nat. 3, 1(2–3): 243. 1834, non (DC.) Lapeyr. ex Le Turq., 1816

Type. “Habitat in Luzonia ad Sorzogon.” Philippine: Luzon Islands, Sorzogon; *Haenke s.n.* (PR).

Distribution. Assam, Uttar Pradesh [Myanmar, Sri Lanka].

Habit. Annual.

775. *Urochloa pullulans* Stapf, Fl. Trop. Afr. [Oliver et al.] 9(4): 590. 1920

Panicum geminatum sensu Schweinf., Bull. Herb. Boissier 2App. 2): 19. 1894, non Forssk., 1775

Distribution. India [also in Africa].

Habit. Not recorded.

Remarks. Distribution in India not recorded.

776. *Urochloa ramosa* (L.) T.Q. Nguyen, Novosti Sist. Vyssh. Rast. 1966: 13. 1966

Panicum ramosum L., Mant. Pl. 29. 1767. Type: “Habitat in Indiis.” Lectotype: *Herb. Linn. No. 80.44* (LINN). LT designated by Cope in Nasir and Ali (ed.), Fl. Pakistan 143: 207. 1982.

Brachiaria ramosa (L.) Stapf., Fl. Trop. Afr. [Oliver et al.] 9: 542. 1919

Urochloa ramosa (L.) R.D. Webster, Austral. Paniceae (Poaceae) 251. 1987, isonym.

Panicum arvense Kunth, Révis. Gramin. 2: 391. t. 109. 1831. Type: “Crescit ubique in arvis Senegaliae.” *Leprieur s.n.*

Panicum brachylachnum Steud., Syn. Pl. Glumac. 1: 62. 1853. Type: Senegalia; *Leprieur s.n.*

Panicum canescens Roth, Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 457. 1817. Type: India orientalis

Panicum cognatissimum Steud., Syn. Pl. Glumac. 1: 69. 1853. Type: Segegambia; *Leprieur s.n.*

Urochloa supervacua (C.B. Clarke) Noltie, Edinburgh J. Bot. 56(3): 394. 1999

Panicum supervacuum C.B. Clarke, J. Linn. Soc., Bot. 24: 407–408. f. A-E. 1888. Lectotype: India: West Bengal, Baladum, alt. 400 ft.; May 28, 1884; *C.B. Clarke 35103* (K). LT designated by Noltie in Edinburgh J. Bot. 56(3): 394. 1999.

Brachiaria marselinii Gawade & Gavade, J. Bombay Nat. Hist. Soc. 101(2): 291 -293. f. 1. 2004 (as “marselini”). Type: India: Maharashtra, Masure, Malvan, Sindhudurg; September 27, 2000; *N.D. Gawade 1442* (BLAT).

Panicum patens sensu Bojer, Hortus Maurit. 365. 1837, non L., 1753

Distribution. Andhra Pradesh, Bihar, Chhattisgarh, Daman and Diu, Goa, Gujarat, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Rajasthan, Tamil Nadu, Uttar Pradesh, West Bengal [Bhutan, China, Nepal, Pakistan, Sri Lanka].

Habit. Annual.

777. *Urochloa ramosa* (L.) T.Q. Nguyen var. *pubescens* (Basappa & Muniy.) E.A. Kellogg, comb. nov.

urn:lsid:ipni.org:names:77212130-1

Brachiaria ramosa (L.) Stapf. var. *pubescens* Basappa & Muniy., Proc. Indian Natl. Sci. Acad., B, 49(4): 380. 1983

Distribution. Karnataka, Rajasthan.

Habit. Annual.

Remarks. Distribution in India fide Naithani (1990). The above combination is made here to transfer *Brachiaria ramosa* (L.) Stapf var. *pubescens* to *Urochloa*, as a variety of *U. ramosa*.

778. *Urochloa remota* (Retz.) Ashalatha & V.J. Nair, Bull. Bot. Surv. India 35(1–4): 29. 1997 (“1993”)

Panicum remotum Retz., Observ. Bot. (Retzius) 4: 17. 1786–1787. Type: “E Tranquebaria misit Opt. Koenig.”

Brachiaria remota (Retz.) Haines, Bot. Bihar Orissa 5: 1005. 1924

Panicum petiveri Trin., Gram. Panic. [Trinius] 144. 1826 (as “petiverii”). Type: India orientalis; *Lindley s.n.*

Distribution. Andhra Pradesh, Bihar, Gujarat, Karnataka, Kerala, Maharashtra, Odisha, Tamil Nadu, Uttar Pradesh [Sri Lanka].

Habit. Perennial.

779. *Urochloa reptans* (L.) Stapf, Fl. Trop. Afr. [Oliver et al.] 9: 601. 1920 var. *reptans*

Panicum reptans L., Syst. Nat., ed 10. 2: 870. 1759. Lectotype: Browne, Herb. Linn. No. 80.52, upper specimen (LINN). LT designated by Veldkamp. *Blumea* 41(2): 427. 1996.

Brachiaria reptans (L.) C.A. Gardner. & C.E. Hubb., Hooker's Icon. Pl. 34: sub t. 3363. 1938

Brachiaria reptans (L.) Gard. var. *hispida* Basappa & Muniy., Proc. Indian Natl. Sci. Acad., B 49(4): 380. 1983

Panicum prostratum Lam., Tabl. Encycl. 1: 171. 1791. Type: Hispaniola: Dominican Republic, St. Dominique; *Anonymous in Herb. Lamarck* (P-LAM).

Brachiaria prostrata (Lam.) Griseb., Abh. Königl. Ges. Wiss. Göttingen 7: 263. 1857

Panicum procumbens Nees, Fl. Bras. Enum. Pl. 2: 109. 1829. Type: “*Panicum prostratum* β Lam., Encycl. (Lamarck). 4:740.”

Panicum umbrosum Retz., Observ. Bot. (Retzius) 4: 16. 1786–1787. Type: “Habitat in graminosis umbrosis Indiae Orientalis. Misit Cel. Koenig.” India; *Koenig s.n. in herb. Retz* (LD).

Distribution. Andaman and Nicobar Islands, Andhra Pradesh, Assam, Bihar, Chhattisgarh, Daman and Diu, Delhi, Goa, Gujarat, Haryana, Jammu and Kashmir, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Punjab, Rajasthan, Tamil Nadu, Uttar Pradesh, West Bengal [Malaysia, Oceanic Islands, Africa, Australia, China].

Habit. Annual.

Remarks. The taxonomic editors question whether *Brachiaria reptans* (L.) Gard. var. *hispida* should be recognized as distinct; it is placed in synonymy here.

780. *Urochloa semiundulata* (Hochst. ex A. Rich.) Ashalatha & V.J. Nair, Bull. Bot. Surv. India 35(1–4): 30. 1997 (“1993”) var. *semiundulata*

Panicum semiundulatum Hochst. ex A. Rich., Tent. Fl. Abyss. 2: 364. 1850–1851. Type: “Crescit in pratis et locis graminosis prope Adoua, nec non in planitie montana provinciae Chiré, mensibus Septembre et Octobre (Schimper).” Syntypes: Ethiopia: Schire; October 10, 1840; *Schimper* 1833. Ethiopia: Adoam; September 25, 1837; *Schimper* 289

Brachiaria semiundulata (Hochst. ex A. Rich.) Stapf, Fl. Trop. Afr. [Oliver et al.] 9: 556. 1919

Panicum nilagiricum Steud., Syn. Pl. Glumac. 1: 62. 1853. Type: India: Tamil Nadu, Nilgiri Mountains; *R.F. Hohenacker* 919

Panicum villosum sensu Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 34. 1896, non Lam., 1791

Distribution. Andaman and Nicobar Islands, Andhra Pradesh, Assam, Bihar, Chhattisgarh, Daman and Diu, Delhi, Goa, Gujarat, Haryana, Jammu and Kashmir, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Punjab, Rajasthan, Tamil Nadu, Uttar Pradesh, West Bengal [China, Sri Lanka].

Habit. Annual.

Remarks. Record for Tamil Nadu fide Naithani (1990).

781. *Urochloa semiundulata* (Hochst. ex A. Rich.) Ashalatha & V.J. Nair var. *intermedia* (Basappa & Muniy.) E. A. Kellogg, comb. nov.

urn:lsid:ipni.org:names:77212131-1

Brachiaria semiundulata (Hochst. ex A. Rich.) Stapf var. *intermedia* Basappa & Muniy., Proc. Indian Natl. Sci. Acad., B 49(4): 380. 1983

Distribution. Karnataka (Naithani), Kerala, Maharashtra, Tamil Nadu.

Habit. Annual.

Remarks. The above combination is made here to transfer *Brachiaria semiundulata* (Hochst. ex A. Rich.) Stapf var. *intermedia* Basappa & Muniy. to *Urochloa* as a variety of *U. semiundulata* (Hochst. ex A. Rich.) Ashalatha & V.J. Nair.

782. *Urochloa semiundulata* (Hochst. ex A. Rich.) Ashalatha & V.J. Nair var. *lanata* (Basappa & Muniy.) Ashalatha & V.J. Nair, Bull. Bot. Surv. India 35(1–4): 30. 1997 (“1993”)

Brachiaria semiundulata (Hochst. ex A. Rich.) Stapf var. *lanata* Basappa & Muniy., Proc. Indian Natl. Sci. Acad., B 49(4): 380. 1983

Distribution. Karnataka, Kerala, Maharashtra, Tamil Nadu.

Habit. Annual.

Remarks. Record for Karnataka fide Naithani (1990).

783. *Urochloa semiverticillata* (Rottler ex Steud.) Ashalatha & V.J. Nair, Bull. Bot. Surv. India 35(1–4): 30. 1997 (“1993”)

Brachiaria semiverticillata (Rottler ex Steud.) Alston in Trimen, Handb. Fl. Ceylon 6(suppl.): 318. 1931

Panicum semiverticillatum Rottler ex Steud., Syn. Pl. Glumac. 1: 62, 1853. Type: India; Nees s.n.

Panicum semiverticillatum Rottler in Ainslie, Mat. Med. Hindoostan ed. 1, 219. 1813, nom. nud.?

Panicum firmiculme Mez, Notizbl. Bot. Gart. Berlin-Dahlem 7(63): 65. 1917. Type: Sri Lanka; *Thwaites* 595 (as “895”)

Distribution. Kerala, Tamil Nadu [Sri Lanka].

Habit. Perennial.

784. *Urochloa setigera* (Retz.) Stapf, Fl. Trop. Afr. [Oliver et al.] 9: 598. 1920 var. *setigera*

Panicum setigerum Retz., Observ. Bot. (Retzius) 4: 15. 1786–1787. Type: “E China misit Cel. Bladh.” China: Guangdong, Guangzhou; *Bladh* s.n. (LD).

Brachiaria setigera (Retz.) C.E. Hubb., Hooker’s Icon. Pl. 34: sub. t. 3363. f. 2. 1938

Panicum affine Poir., Encycl. (Lamarck) Suppl. 4: 273. 1816. Type: “Cette espece croit dans les Indes orientales.”

Distribution. Andhra Pradesh, Bihar, Gujarat, Kerala, Maharashtra, Rajasthan, Tamil Nadu, West Bengal [Myanmar, Sri Lanka].

Habit. Perennial.

785. *Urochloa setigera* (Retz.) Stapf var. *albistyla* (Basappa & Muniy.) S. Karthikeyan, Fl. Ind. ser. 4, 1 (Monocotyledon): 273. 1989

Brachiaria setigera (Retz.) C.E. Hubb. var. *albistyla* Basappa & Muniy., Proc. Indian Acad. Sci., B. 49: 380. 1983. Type: India

Distribution. Andhra Pradesh, Bihar, Maharashtra, Tamil Nadu, West Bengal [China, Myanmar, Nepal, Sri Lanka].

Habit. Perennial.

Remarks. Record for Tamil Nadu fide Naithani (1990).

786. *Urochloa stapfiana* (Basappa & Muniy.) Ashalatha & V.J. Nair, Bull. Bot. Surv. India 35(1–4): 30. 1997 (“1993”)

Brachiaria stapfiana Basappa & Muniy., Proc. Indian Natl. Sci. Acad., B 49(4): 379. 1983

Distribution. Karnataka.

Habit. Perennial.

787. *Urochloa subquadripara* (Trin.) R.D. Webster, Austral. Paniceae (Poaceae) 252. 1987

Panicum subquadriparum Trin., Gram. Panic. [Trinius] 145. 1826. Lectotype: Mariana Islands; *Chamisso s.n. in Herb. Trinius 0947.01* (LE). LT designated by Veldkamp in *Blumea* 41(2): 429. 1996.

Brachiaria subquadripara (Trin.) Hitchc., Lingnan Sci. J. 7: 214. 1931

Panicum distachyum sensu Thwaites, Enum. Pl. Zeyl. (Thwaites). 359. 1864, non L., 1767

Distribution. Andaman and Nicobar Islands, Assam, Bihar, Delhi, Karnataka, Kerala, Odisha, Tamil Nadu, West Bengal [China, Sri Lanka].

Habit. Annual.

788. *Urochloa trichopus* (Hochst.) Stapf, Fl. Trop. Afr. [Oliver et al.] 9(4): 589. 1920

Panicum trichopus Hochst., Flora 27: 254. 1844. Type: "Habitat in cultis provinciae Cordofan"; *Kotschy 74*

Distribution. Uttar Pradesh [also in Africa].

Habit. Annual.

789. *Urochloa villosa* (Lam.) T.Q. Nguyen, Novosti Sist. Vyssh. Rast. 1966: 14. 1966 var. *villosa*

Panicum villosum Lam., Tabl. Encycl. 1(1): 173. 1791. Type: India; *Sonnerat s.n.* (P-LAM).

Brachiaria villosa (Lam.) A. Camus, Fl. Indo-Chine [P.H. Lecomte et al.] 7: 433. 1922

Panicum cocospermum Steud., Syn. Pl. Glumac. 1: 62. 1853. Type: India orientalis; *Royle Herb. no. 43. 44*

Panicum nanum Nees, Syn. Pl. Glumac. (Steudel) 1: 62. 1853. Type: Nepal; *Royle Herb. no. 45*

Panicum grossarium sensu Roxb., Fl. Ind. (Carey and Wallich ed.) 1: 300. 1820, non L., 1759

Distribution. Assam, Manipur, Meghalaya, Nagaland, Rajasthan, Sikkim, Tamil Nadu, Uttar Pradesh, Uttarakhand [Bhutan, China, Myanmar, Nepal].

Habit. Annual.

790. *Urochloa villosa* (Lam.) T.Q. Nguyen var. *barbata* (Bor) Noltie, Edinburgh J. Bot. 56(3): 395–396. 1999

Brachiaria villosa (Lam.) A. Camus var. *barbata* Bor, Grass. Bur. Ceyl. Ind. Pak. 386. 1960.

Distribution. Uttar Pradesh [Nepal].

Habit. Annual.

791. *Urochloa villosa* (Lam.) T.Q. Nguyen var. *glaberrima* (Basappa & Muniy.) Ashalatha & V.J. Nair, Bull. Bot. Surv. India 35(1–4): 30. 1997 (“1993”)

Brachiaria villosa (Lam.) A. Camus var. *glaberrima* Basappa & Muniy., Proc. Indian Natl. Sci. Acad., B 49(4): 381. 1983

Distribution. Meghalaya, Gujarat, Punjab, Rajasthan, Sikkim, Tamil Nadu, Uttar Pradesh [Nepal].

Habit. Annual.

Remarks. Record for Punjab fide Naithani (1990).

Tribe Jansenelleae Voronts., 2020

Plant annual. Lique membranous. Inflorescence dense, capitate, with short branches. Spikelets laterally compressed. Glumes acuminate or awned, lemmas awned. Hilum punctate. Leaf anatomy C_3 .

The two genera of Jansenelleae were provisionally placed in Tristachyideae by Kellogg (2015b), pending further data. However, recent molecular phylogenetic work (Bianconi et al. 2020) has shown that they are sisters, and form a clade that itself is sister to Andropogoneae s.l. Species of Jansenelleae appear to be C_3 and thus help illuminate the origin and development of the C_4 pathway in their sister tribe Andropogoneae (Bianconi et al. 2020).

***Chandrasekharania* V.J. Nair, V.S. Ramach. & Sreek., Proc. Indian Acad. Sci. Pl. Sci. 91(2): 79. 1982**

Type. *Chandrasekharania keralensis* V.J. Nair, V.S. Ramach. & Sreek.

792. *Chandrasekharania keralensis* V.J. Nair, V.S. Ramach. & Sreek., Proc. Indian Acad. Sci. Pl. Sci. 91(2): 80. 1982

Type. India: Kerala, Cannanore District, Kannothe, alt. 500 ft.; February 18, 1978; V.S. Ramachandran 54064 (CAL).

Distribution. Kerala, Karnataka, Maharashtra.

Habit. Annual.

Remarks. Distribution records fide Naithani (1990).

***Jansenella* Bor, Kew Bull. 1955: 96. 1955**

Type. *Jansenella griffithiana* (Müll. Hal.) Bor (*Danthonia griffithiana* Müll. Hal.).

793. *Jansenella griffithiana* (Müll. Hal.) Bor, Kew Bull. 1955: 98. 1955

Danthonia griffithiana Müll. Hal., Bot. Zeitung (Berlin) 14(20): 347. 1856. Type: India: Assam, Khasiya; *Griffith* 36 (B).

Arundinella griffithiana (Müll. Hal.) Bor, Indian Forester Rec., Bot. n.s. 1(3): 73. 1938

Danthoniopsis griffithiana (Müll. Hal.) Bor, Fl. Assam 5: 187. 1940

Arundinella avenacea Munro ex Thwaites, Enum. Pl. Zeyl. (Thwaites). 362. 1864. Type: Sri Lanka: Saffragam District, at no great elevation; *Munro Ceylon Plant* 3471

Arundinella campbelliana Lisboa, J. Bombay Nat. Hist. Soc. 5: 346. 1890. Type: India: Mahableswar; 1889; *Lisboa s.n.*

Distribution. Arunachal Pradesh, Assam, Chhattisgarh, Goa, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Tamil Nadu [Myanmar, Sri Lanka].

Habit. Annual.

Tribe Andropogoneae Dumort., 1824

Plants with complex inflorescences, often highly branched and/or bracteate. Spikelets borne in pairs, one sessile and the other pedicellate, the two often differentiated in structure and function. Branches sometimes ending a spikelet morphologically identical to the pedicellate one so that the spikelets appear to be in triplets. Glumes firm to indurate, the lemma and palea generally hyaline. In most species other than those in *Arundinella* and *Garnotia* the rachis disarticulates between the spikelet pairs. *Photosynthetic pathway* C_4 *NADP-ME subtype*.

Taxonomic editor: Elizabeth A. Kellogg

Andropogon L., Sp. Pl. 2: 1045. 1753, nom. cons.

Type. *Andropogon distachyos* L. (as “distachyon”) (*typ. cons.*)

794. *Andropogon chinensis* (Nees) Merr., Philipp. J. Sci., C. 12(2): 101. 1917

Homoeatherum chinense Nees, Nat. Syst. Bot. 448. 1836

Andropogon apricus var. *chinensis* (Nees) Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 457. 1889

Andropogon ascinodis C.B. Clarke, J. Linn. Soc., Bot. 25: 87. t. 36. 1889. Type: India: Assam, Jakpho, alt. 7500 ft.; *C.B. Clarke no. 41890*

Andropogon apricus sensu Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 169. 1896, non Trin., 1836

Distribution. Andhra Pradesh, Assam, Bihar, Karnataka, Manipur, Meghalaya, Nagaland, Odisha, Tamil Nadu [China, Myanmar].

Habit. Perennial.

795. *Andropogon gayanus* Kunth, Enum. Pl. (Kunth) 1: 491. 1833

Andropogon reconditus Steud., Syn. Pl. Glumac. 1: 386. 1854. Type: Africa: “Leprieur legit in Senegalia”; *Leprieur s.n.*

Andropogon tomentellus Steud., Syn. Pl. Glumac. 1: 371. 1854. Type: Africa: “Leprieur legit in Senegalia”; *Leprieur s.n.*

Andropogon guineensis Steud., Syn. Pl. Glumac. 1: 371. 1854, nom. Later hom., non Schumach., 1828

Type. Senegalia.

Distribution. India [also in Africa]. Naturalized; native to Africa.

Habit. Perennial.

Remarks. Distribution in India not recorded.

796. *Andropogon hallii* Hack., Sitzungsber. Kaiserl. Akad. Wiss., Math.-Naturwiss. Cl. 89: 127. 1884

Sorghum hallii (Hack.) Kuntze, Revis. Gen. Pl. 2: 791. 1891

Andropogon chrysocomus Nash, Man. Fl. N. States (Britton) 70. 1901. Lectotype: USA: Kansas, Stevens County; July 24, 1891; *M.A. Carleton 343* (NY-69769). LT designated by Nash in N. Amer. Fl. 17(2): 120. 1912.

Andropogon geminatus Hack. ex Beal, Grasses N. Amer. 2: 55. 1896. Type: USA: Texas; 1889; *Nealley s.n.* (US-728855).

Andropogon paucipilus Nash, Man. Fl. N. States (Britton) 70. 1901. Lectotype: USA: Nebraska, Grant County, 3 miles NE of Whitman; 31 Jul 1893; *P.A. Rydberg 1607* (NY-69766). LT designated by Nash in North Amer. Fl. 17(2): 121. 1912.

Type. USA: Nebraska; 1862; *E. A. Hall & J.P. Harbour 651* (W).

Distribution. Tamil Nadu. Naturalized; native to North America.

Habit. Perennial.

Remarks. This species may not be distinct from *A. gerardi* (Estep et al. 2014).

797. *Andropogon lividus* Thwaites, Enum. Pl. Zeyl. (Thwaites). 367. 1864

Cymbopogon lividus (Thwaites) Willis, Revis. Cat. Fl. Pl. Ceylon 110. 1911

Type. Sri Lanka: Central Province, Newera Ellia and other of more elevated parts; *Thwaites Ceylon Plant 953*.

Distribution. Kerala, Tamil Nadu [Sri Lanka].

Habit. Perennial.

798. *Andropogon longipes* Hack., Flora 68: 138. 1885

Type. India: Tamil Nadu, Nilgerries; *Perrotet 1315*.

Distribution. Tamil Nadu.

Habit. Perennial.

799. *Andropogon munroi* C.B. Clarke, J. Linn. Soc., Bot. 25: 87–88. t. 37. 1889

Andropogon hookeri Munro ex Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 614. 1889. Type: Bhutan; *W. Griffith 6767* (W).

Cymbopogon hookeri (Munro ex Hack.) Stapf ex Bor, Indian Forest Rec., Bot. n.s. 1(3): 92. 1938

Andropogon tristis Nees ex Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 439. 1889. Syntypes: Nepal; Royle 227. India: Kamaon alt. 10000 ft.; *Duthie s.n.* Himalaya; *J.D. Hooker & Thomson s.n.* Massuri; *Hugel s.n.* (C). Chini; *Stoliczka s.n.* (C).

Type. India: North Muneypore, alt. 3500 ft.; *C.B. Clarke 41961*.

Distribution. Assam, Manipur, Meghalaya, Uttar Pradesh, Uttarakhand [Bhutan, China, Nepal, Pakistan].

Habit. Perennial.

800. *Andropogon polyptychos* Steud., Syn. Pl. Glumac. 1: 380. 1854

Dichanthium polyptychon (Steud.) A. Camus, Bull. Mus. Natl. Hist. Nat. 27: 549. 1921

Andropogon polyptychos Steud. var. *deccanensis* Bor, Grasses Burma, Ceylon, India and Pakistan 91. 1960, nom. inval.? Type: India: Madras; *Bourne* 1622, 1337

Dichanthium polyptychon (Steud.) A. Camus var. *deccanensis* Bor, Grasses Burma, Ceylon, India and Pakistan 91. 1960

Type. Sri Lanka.

Distribution. Himachal Pradesh, Jammu and Kashmir, Kerala, Madhya Pradesh, Tamil Nadu [Myanmar, Sri Lanka].

Habit. Perennial.

Remarks. Records for Kerala and Tamil Nadu fide Naithani (1990).

801. *Andropogon pumilus* Roxb., Fl. Ind. (Carey & Wallich ed.) 1: 277. 1820

Andropogon demissus Steud., Syn. Pl. Glumac. 1: 388. 1854. Syntypes: India; Numer. List [Wallich] no. 8799. India; Numer. List [Wallich] no 8798 A.B.

Andropogon pachyarthrus Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 449. 1889, nom. superfl. & illeg.

Type. India: “A native of Coromandel.”

Distribution. Andhra Pradesh, Bihar, Daman and Diu, Goa, Gujarat, Karnataka, Kerala, Himachal Pradesh, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Rajasthan, Tamil Nadu, Uttar Pradesh [Myanmar, Nepal].

Habit. Annual.

***Apluda* L., Sp. Pl. 1: 82. 1753**

Type. *Apluda mutica* L., Sp. Pl. 1: 82. 1753.

802. *Apluda mutica* L., Sp. Pl. 1: 82. 1753

Calamina mutica (L.) P. Beauv., Ess. Agrostogr. 151 1812

Andropogon glaucus Retz., Observ. Bot. (Retzius) 5: 20. 1788 (“1789”) (as “glaucum”). Type: “Misit opt. Koenig, qui Anthistiriae speciem credidit.”

Apluda aristata L., Cent. Pl. II 7. 1756. Type: “Habitat in India.” Lectotype: Herb. Linn. No. 1213.4 (LINN). LT designated by Renvoize in Cafferty et al. (ed.), Taxon 49: 246. 2000.

- Apluda aristata* L. var. *jainii* R.K. Jain, Ind J. For. 9:345. 1986.
- Apluda geniculata* Roxb., Fl. Ind. (Carey and Wallich ed.) 1: 327. 1820. Type: India: "found in the banks of the Gangas."
- Apluda varia* Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 196. 1889. Type: Cited many syntypes
- Apluda varia* Hack. ssp. *aristata* Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 196. 1889. Type: Cited many syntypes
- Apluda varia* Hack. var. *ciliata* (Andersson) Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 151. 1896
- Apluda varia* Hack. var. *rostrata* (Nees ex Arn.) Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 151. 1896
- Apluda varia* Hack. var. *villosula* Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 151. 1896. Type: India: *Wight Cat. no. 1713*
- Apluda varia* Hack. var. *humilis* Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 151. 1896
- Apluda ciliata* Andersson, Ofvers. Forh. Kongl. Svenska Vetensk.-Akad. 12: 177. 1855. Type: India Orientali, Carnar; *Hugel 1639*
- Apluda rostrata* Nees ex Arn., Nov. Actorum Acad. Caes. Leop.-Carol. Nat. Cur., Suppl. 19 (1): 194–195. 1843. Type: Sri Lanka; *Walker s.n.*
- Anthistiria gigantea* Cav., Icon. (Cavanilles) 5(1): 36. t. 458. 1799. Type: "Habitat in Luzon philippica insula tribus leucis ab oppido Guaz. Floret Martio et Aprili. Vidi siccam in eodem herbario."
- Apluda gigantea* (Cav.) Spreng., Syst. Veg. (ed. 16) [Sprengel] 1: 290. 1824 ("1825")
- Calamina gigantea* (Cav.) P. Beauv., Ess. Agrostogr. 157 1812
- Apluda mutica* L. var. *major* (Hack.) R.K. Jain, Ind. J. For. 9:347. 1986
- Apluda blatteri* Sur, Bull. Bot. Surv. Ind. 26: 193. 1986
- Calamina humilis* J. Presl in C. Presl, Reliq. Haenk. 1(4–5): 344. 1830, non Roem. & Schult., 1817
- Apluda mutica* L. var. *aristata* (L.) Pilg., Nat. Pflanzenfam., ed. 2 [Engler & Prantl] 14e: 130. 1940, nom. illeg. & hom., non *Apluda mutica* var. *aristata* (L.) Hack. ex Backer, 1928

Type. "Habitat in India." Lectotype: Herb. Linn. No. 1213.1 (LINN). LT designated by Cope in Jarvis et al. (ed.), Regnum Veg. 127: 20. 1993.

Distribution. Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Chhattisgarh, Goa, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Karnataka, Kerala, Odisha, Rajasthan, Tamil Nadu, Uttar Pradesh, Uttarakhand, West Bengal [Afghanistan, Bhutan, China, Myanmar, Nepal, Pakistan, Sri Lanka].

Habit. Perennial.

Remarks. Record for Uttar Pradesh fide Naithani (1990).

Apocopis* Nees, Proc. Linn. Soc. London 1: 93. 1841*Type.** *Apocopis royleanus* Nees.**803. *Apocopis cochinchinensis* A. Camus, Bull. Mus. Hist. Nat. (Paris) 25: 286. 1919****Type.** “Cochinchine (Pierre).” Vietnam; *J.B.L. Pierre s.n.* (US-1062404).**Distribution.** Karnataka, Kerala [China].**Habit.** Annual.**804. *Apocopis courtallumensis* (Steud.) Henrard, Blumea 4(3): 524. 1941***Andropogon courtallumensis* Steud., Syn. Pl. Glumac. 1: 377. 1854. Type: India: Courtallum; *Wight s.n.**Apocopis wightii* Nees ex Thwaites, Enum. Pl. Zeyl. (Thwaites). 365. 1864, nom. superfl. & illeg. for *Andropogon courtallumensis***Distribution.** Andhra Pradesh, Karnataka, Kerala, Tamil Nadu [Myanmar, Sri Lanka].**Habit.** Annual.**805. *Apocopis mangalorensis* (Hochst. ex Steud.) Henrard, Blumea 4(3): 523. 1941***Amblyachyrum mangalorensis* Hochst. ex Steud., Syn. Pl. Glumac. 1: 413. 1854. Type: India; 1847; *R.F. Hohenacker 231* (P).*Apocopis wightii* Nees ex Thwaites. ssp. *mangalorensis* (Hochst. ex Steud.) Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 259. 1889*Apocopis wightii* Nees ex Thwaites. var. *zeylanica* Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 259. 1889. Type: Sri Lanka; *Thwaites 401**Apocopis courtallumensis* sensu Senaratna, Grasses of Ceylon (Perad. Man. No. 8) 171. 1956, non (Steud.) Henrard., 1941**Distribution.** Karnataka, Kerala, Maharashtra, Tamil Nadu [Myanmar, Sri Lanka].**Habit.** Annual.**806. *Apocopis paleaceus* (Trin.) Hochr., Bull. New York Bot. Gard 6: 262. 1910 (as “paleacea”)***Ischaemum paleaceum* Trin. Mém. Acad. Imp. Sci. St.-Pétersbourg, Sér. 6, Sci. Math. 2: 293. 1833. Type: Nepal

Andropogon paleaceus (Trin.) Steud., Syn. Pl. Glumac. 1: 376. 1854

Apocopis royleanus Nees, Proc. Linn. Soc. London 1: 94. 1841. Type: Not given

Apocopis himalayensis Will. Watson in Atkins., Bot. Himalayan Distr. N.W. Prov. 392. 1882, nom. superfl. & illeg.

Andropogon himalayensis Steud., Syn. Pl. Glumac. 1: 377. 1854, nom. superfl. & illeg. for *Apocopis royleanus* Nees.

Distribution. Assam, Manipur, Meghalaya, West Bengal [Bhutan, China, Myanmar, Nepal].

Habit. Perennial.

807. *Apocopis vaginatus* Hack., Oesterr. Bot. Z. 41: 8. 1891

Apocopis wightii Nees ex Thwaites var. *vaginata* (Hack.) Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 143. 1896

Type. India: Hazaribagh; *C.B. Clarke 33849* (W).

Distribution. Andhra Pradesh, Bihar, Chhattisgarh, Daman and Diu, Goa, Gujarat, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Tamil Nadu, West Bengal, Uttar Pradesh, Uttarakhand [Myanmar].

Habit. Annual.

***Arthraxon* P. Beauv., Ess. Agrostogr. 111. 1812**

Type. *Arthraxon ciliare* P. Beauv.

808. *Arthraxon castratus* (Griff.) V. Naray. ex Bor, Fl. Assam 5: 376. 1940

Andropogon castratus Griff., Not. Pl. Asiat. 3: 89. 1851. Type: "Suddah in Campis graminosis; January 2, 1836; *It. Ass.* 292." (K).

Andropogon rudis Steud., Syn. Pl. Glumac. 1: 383. 1854. Type: [Bangladesh] India: Silhet; Numer. List [Wallich] no. 8837

Arthraxon rudis (Steud.) Hochst., Flora 39: 188. 1856 [basionym reference not given]

Distribution. Assam, Bihar, Karnataka, Kerala, Manipur, Meghalaya, Odisha, Tamil Nadu, West Bengal [Bangladesh, China, Myanmar, Sri Lanka].

Habit. Perennial.

809. *Arthraxon depressus* Stapf ex C.E.C. Fisch., Bull. Misc. Inform. Kew 1933: 349–350. 1933

Type. India: “Peninsula, precise locality not indicated”; *Wight 3372* (K).

Distribution. Karnataka, Maharashtra, Tamil Nadu.

Habit. Annual.

Remarks. Distribution in India fide Naithani (1990).

810. *Arthraxon hispidus* (Thunb.) Makino, Bot. Mag. (Tokyo) 26: 214. 1912 var. *hispidus*

Phalaris hispida Thunb. in J.A. Murray, Syst. Veg. ed. 14: 104. 1784. Type: Japan; *C.P. Thunberg 1776* (UPS).

Alectoridia quartiniana A. Rich., Tent. Fl. Abyss. 2: 448. t. 102. 1850–1851. Type: “Crescit ad marginem stagnorum juxta Adoua, mense Novembre (Quartin Dillon).” Ethiopia: Adoua; *Quartin Dillon s.n.* (P).

Arthraxon quartinianus (A. Rich.) Nash, N. Amer. Fl. 17(2): 99. 1912

Arthraxon breviaristatus Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 350. 1889. Syntypes: China: Yunnan, prope Ki-mi-se, ad rivulos montium; *Delavay 1811* (P). India: Khasia, alt. 4000–6000 ft.; *J.D. Hooker & T. Thomson s.n.* (K, L, W).

Arthraxon ciliaris P. Beauv., Ess. Agrostogr. 111. t. 11. f. 6. 1812 (as “ciliare”). Type: “Cultivé par son oncle a Trianon”; *Richard s.n.* (P).

Arthraxon ciliaris P. Beauv. var. *hookeri* Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 357. 1889. Type: India: Sikkim; *J.D. Hooker & Thomson s.n.*

Arthraxon inermis Hook. f. var. *tzvelevii* Jain, Sci. & Cult. 37(1): 55. 1971. Type: India: Purandhar, vazirghad Fort; *Santapau 11361* (CAL)

Batratherum micans Nees, Edinburgh New Philos. J. 18: 182–183. 1835. Type: “In Benghala boreli; Royle.”

Arthraxon micans (Nees) Hochst., Flora 39: 188. 1856

Arthraxon nitidulus Stapf ex Bor, Grasses Burma, Ceylon, India and Pakistan 101, 688. 1960. Type: India: Bombay, Belgaum; *Ritchie 796a* (K).

Arthraxon satarensis M. R. Almeida, J. Bombay Nat. Hist. Soc. 66: 515. 1970, emend. Deshp. & Hemadri, Bull. Bot. Surv. India 12: 274. 1970. Type: India: Maharashtra, 8-Satara-Keshyaturda; *McCann 8* (BLAT).

Distribution. Andhra Pradesh, Bihar, Karnataka, Madhya Pradesh, Maharashtra, Tamil Nadu, Sikkim, Uttar Pradesh, West Bengal [Bhutan, China, Nepal, Pakistan, Sri Lanka].

Habit. Annual.

811. *Arthraxon hispidus* (Thunb.) Makino var. *junnarensis* (S.K. Jain & Hemadri) Welzen, Blumea 27(1): 277. 1981

Arthraxon junnaensis S.K. Jain & Hemadri, J. Bombay Nat. Hist. Soc. 68: 300–301. f. a–f. 1971. Type: India: Maharashtra, Poona District, Warsubai plateau, 16km west of Junnar; *Hemadri* 106849 (CAL).

Distribution. Maharashtra [China].

Habit. Annual.

Remarks. Record for India fide Naithani (1990).

812. *Arthraxon inermis* Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 145. 1896

Type. India: Concan; *Woodrow* 189 (K).

Distribution. Goa, Maharashtra.

Habit. Annual.

Remarks. Record for Maharashtra fide Naithani (1990).

813. *Arthraxon jubatus* Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 358. 1889

Type. India: Kerala, Concan, Malabar; *J.E. Stocks s.n.* (W).

Distribution. Kerala, Karnataka, Maharashtra.

Habit. Annual.

814. *Arthraxon lanceolatus* (Roxb.) Hochst., Flora 39: 188. 1856 var. *lanceolatus*

Andropogon lanceolatus Roxb., Fl. Ind. (Carey and Wallich ed.) 1: 262. 1820. Type: India: “A native of Coromandel.” Lectotype: India; *Roxburgh Icon. Ined.* 2019 (K, copy in L). LT designated by van P.C. van Welzen in *Blumea* 27(1): 283. 1981.

Arthraxon deccanensis S.K. Jain, J. Bombay Nat. Hist. Soc. 68: 298. 1971. Type: India: Maharashtra, Poona District, Sinhagad; *Patil* 7825 (CAL).

Distribution. Andhra Pradesh, Assam, Bihar, Chhattisgarh, Daman and Diu, Gujarat, Jharkhad, Karnataka, Kerala, Maharashtra, Odisha, Punjab, Tamil Nadu [China, Pakistan].

Habit. Annual.

Remarks. Record for Maharashtra fide Naithani (1990).

815. *Arthraxon lanceolatus* (Roxb.) Hochst. var. *echinatus* (Nees) Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 348. 1889

Batratherum echinatum Nees, Edinburgh New Philos. J. 18: 181. 1835. Lectotype: India; *Wight KD 1684* (K). LT designated by P.C. van Welzen in *Blumea* 27(1): 285. 1981.

Arthraxon echinatus (Nees) Hochst., *Flora* 39: 188. 1856.

Arthraxon spathaceus Hook. f., *Fl. Brit. India* (J.D. Hooker). 7(21): 145. 1896. Type: India: Deccan Peninsula, Gunda Cottah Hill fort, Cuddapah; *Wight Herb. 337* (K).

Distribution. Andhra Pradesh, Assam, Karnataka, Maharashtra, Odisha, Tamil Nadu, Uttar Pradesh [Nepal].

Habit. Annual.

816. *Arthraxon lancifolius* (Trin.) Hochst., *Flora* 39: 188. 1856

Andropogon lancifolius Trin., *Mém. Acad. Imp. Sci. St.-Petersbourg, Sér. 6, Sci. Math.* 2(4): 271. 1832. Type: Nepal; Numer. List [Wallich] no. 8828B (LE).

Pleuroplitis lancifolia (Trin.) Regel, *Bull. Acad. Imp. Sci. Saint-Petersbourg.* 10(3): 375. 1866

Arthraxon lancifolius (Trin.) Hochst. var. *hindustanicus* S.K. Jain & Deshp., *J. Indian Bot. Soc.* 51: 176. 1972. Type: India: Goa, near Chopora, Kaisuva Fort; September 5, 1965; *Cherian 88557A* (CAL).

Andropogon multicaulis Steud., *Syn. Pl. Glumac.* 1: 383. 1854. Type: Abyssin; *Hochstetter s.n.*

Arthraxon microphyllus (Trin.) Hochst. var. *hindustanicus* (S.K. Jain & Deshp.) S.M. Almeida & M. R. Almeida, *J. Bombay Nat. Hist. Soc.* 82: 445. 1985

Batratherum molle Nees, *Edinburgh New Philos. J.* 18: 181–182. 1835. Type: Type information given for varieties only

Arthraxon molle (Nees) Balf. f., *Trans. Roy. Soc. Edinburgh* 31: 315. 1888

Psilopogon schimperi Hochst. ex A. Rich., *Tent. Fl. Abyss.* 2: 447. 1850–1851. Type: “Crescit in Planitie montosa Beless, provinciae Chire, mense Octobre (Quartin Dillon) et in locis umbrosis ad declivia rivulorum juxta Adoua, mense Septembre (Schimper).” Syntypes: Ethiopia: Adoua; September 18, 1837; *Schimper 96* (TUB?). ST: Ethiopia: Schire; *Quartin Dillon s.n.* (P). Ethiopia: Tigray, Adua; September 18, 1837; *Schimper 46* (WAG).

Batratherum schimperi (Hochst. ex A. Rich.) Nees ex Hochst., *Flora* 39: 179. 1856 (as “Bathratherum”)

Arthraxon schimperi (Hochst. ex A. Rich.) Hochst., *Flora* 39: 189. 1856, p.p.

Lucaea schimperi (Hochst. ex A. Rich.) Steud., *Syn. Pl. Glumac.* 1: 414. 1855.

Pleuroplitis schimperi (Hochst. ex A. Rich.) Regel, *Bull. Acad. Imp. Sci. Saint-Petersbourg.* 10(3): 369. 1866

Arthraxon microphyllus sensu Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 147. 1896, p.p., non (Trin.) Hochst. 1856

Pleuroplitis microphylla (Trin.) Regel, Bull. Acad. Imp. Sci. Saint-Petersbourg. 10(3): 370. 1866

Arthraxon minor Hochst., Flora 39: 188. 1856, nom. illeg. & superfl.

Distribution. Andhra Pradesh, Bihar, Chhattisgarh, Dadra and Nagar Haveli, Daman and Diu, Goa, Gujarat, Himachal Pradesh, Jammu and Kashmir, Karnataka, Kerala, Maharashtra, Madhya Pradesh, Odisha, Rajasthan, Sikkim, Tamil Nadu, Uttar Pradesh, Uttarakhand [China, Myanmar, Nepal, Pakistan, Sri Lanka].

Habit. Annual.

817. *Arthraxon meeboldii* Stapf, Bull. Misc. Inform. Kew 1908: 449. 1908

Arthraxon lanceolatus (Roxb.) Hochst. var. *meeboldii* (Stapf) Welzen, Blumea 27(1): 285, f. 10. 1981

Arthraxon purandharensis Bharucha & Y. Satyan., J. Bombay Nat. Hist. Soc. 52: 481. 1954. Type: India: Bombay, Purandhar, 4000 ft.; *Bharucha* 501 (Herb. Inst. Sc. Bombay).

Type. India: Concan, in open grassland on a hillside near Khandale, alt. 2000 ft.; *Meebold* 9132.

Distribution. Gujarat, Jammu and Kashmir, Karnataka, Madhya Pradesh, Maharashtra.

Habit. Annual.

Remarks. All records except for Madhya Pradesh fide Naithani (1990).

818. *Arthraxon microphyllus* (Trin.) Hochst., Flora 39: 188. 1856

Andropogon microphyllus Trin. Mém. Acad. Imp. Sci. St.-Petersbourg, Sér. 6, Sci. Math. 2: 275. 1832. Type: Nepal; *Wallich* s.n. (LE).

Arthraxon sikkimensis Bor, Kew Bull. 1951: 447. 1952. Type: India: Sikkim, Lachung, alt. 9000 ft.; August 31, 1892; *Gammie* 1079 (K).

Distribution. Gujarat, Jammu and Kashmir, Maharashtra, Meghalaya, Sikkim, Tamil Nadu [Bhutan, China, Myanmar, Nepal, Sri Lanka].

Habit. Annual.

819. *Arthraxon nudus* (Steud.) Hochst., Flora 39: 188. 1856

Andropogon nudus Steud., Syn. Pl. Glumac. 1: 383. 1854. Type: India: Tavoy; Numer. List [Wallich] no. 8834A

Arthraxon ciliaris P. Beauv. ssp. *nudus* (Steud.) Hack., Monogr. Phan. 6: 356. 1889.

Distribution. Assam, Kerala, Uttar Pradesh, Uttarakhand [China, Myanmar].

Habit. Annual.

820. *Arthraxon prionodes* (Steud.) Dandy in F. W. Andrews, Fl. Pl. Sudan 3: 399. 1956

Andropogon prionodes Steud., Syn. Pl. Glumac. 1: 383. 1854. Type: Ethiopia; *Schimper* 1117(P). LT designated by P.C. van Welzen in *Blumea* 27: 283. 1981.

Distribution. Andhra Pradesh, Chhattisgarh, Himachal Pradesh, Gujarat, Karnataka, Madhya Pradesh, Uttarakhand [China, Myanmar, Nepal, Pakistan].

Habit. Perennial.

821. *Arthraxon raizadae* S.K. Jain, Hemadri & Deshp., J. Indian Bot. Soc. 51: 103. 1972

Arthraxon lanceolatus (Roxb.) Hochst. var. *raizadae* (S.K. Jain, Hemadri & Deshp.) Welzen, *Blumea* 27: 287. 1981

Type. India: Maharashtra State, Satara District, Mahabaleshwar; December 25, 1969; *Hemadri* 98585A (CAL).

Distribution. Karnataka, Maharashtra.

Habit. Annual.

Remarks. Record for Karnataka fide Naithani (1990).

822. *Arthraxon santapau* Bor, Kew Bull. 1951: 446. 1952

Arthraxon hispidus (Thunb.) Makino var. *santapau* (Bor) Welzen, *Blumea* 27(1): 280. f. 6. 1981

Type. India: Bombay, Purandhar Fort; October 10, 1950; *H. Santapau* 11450a (K).

Distribution. Himachal Pradesh, Maharashtra, Uttarakhand [also in Oman].

Habit. Annual.

Remarks. Record for Maharashtra fide Naithani (1990).

823. *Arthraxon submuticus* (Nees ex Steud.) Hochst., Flora 39: 188. 1856

Andropogon submuticus Nees ex Steud., Syn. Pl. Glumac. 1: 382. 1854. Type: Nepal;
Numer. List [Wallich] no. 8836

Distribution. Uttar Pradesh, Uttarakhand [China, Nepal].

Habit. Annual.

824. *Arthraxon villosus* C.E.C. Fisch., Bull. Misc. Inform. Kew 1933: 350. 1933

Arthraxon lanceolatus (Roxb.) Hochst. var. *villosus* (C.E.C. Fisch.) Welzen, Blumea
27(1): 288. 1981

Type. India: Western Ghats, Bababudans; April; *Bourne & Bourne s.n.* (K).

Distribution. Karnataka, Kerala, Maharashtra, Tamil Nadu.

Habit. Annual.

Remarks. Records for Maharashtra and Tamil Nadu fide Naithani (1990).

***Arundinella* Raddi, Agrostogr. Bras. [Raddi] 36. t. 1. f. 3. 1823**

Type. *Arundinella brasiliensis* Raddi.

825. *Arundinella bengalensis* (Spreng.) Druce, Rep. Bot. Exch. Club Soc. Brit. Isles 4: 605. 1917

Panicum bengalense Spreng., Syst. Veg. (ed. 16) [Sprengel] 1: 311. 1824 ("1825").

Type: A native of Bengal, where it is found, though rarely, on dry barren spots.

Arundinella wallichii Nees, Syn. Pl. Glumac. (Steudel) 1: 114. 1854. Type: Nepal;
Numer. List [Wallich] no. 8669

Oplismenus strictus Schult., Mant. 2: 272. 1824.

Arundinella stricta (Schult.) Janowski, Repert. Spec. Nov. Regni Veg. 17: 84. 1921,
non Nees, 1850

Panicum strictum Roxb., Fl. Ind. (Carey and Wallich ed.) 1: 306. 1820, non R. Br.,
1810

Distribution. Assam, Bihar, Chhattisgarh, Madhya Pradesh, Meghalaya, Tripura, Uttar Pradesh, Uttarakhand, West Bengal [Bangladesh, Bhutan, China, Myanmar, Nepal].

Habit. Perennial.

826. *Arundinella kannanorica* V.J. Nair, Sreek. & N.C. Nair, J. Bombay Nat. Hist. Soc. 80(2): 396–398. f. 11. 1984

Type. India: Kerala, Cannanore District, Bela, alt. 320 ft.; November 23, 1981; *P.V. Shreekumar* 71822 (CAL).

Distribution. Kerala.

Habit. Annual.

827. *Arundinella ciliata* (Roxb.) Nees ex Miq., Nieuwe Verh. Eerste Kl. Kon. Ned. Inst. Wetensch. Amsterdam 4: 30. 1851

Holcus ciliatus Roxb., Fl. Ind. (Carey and Wallich ed.) 1: 321. 1820. Type: India: “A native of Coromandel.”

Arundinella agrostoides Hook. f. var. *ciliata* (Roxb.) Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 71. 1896

Arundinella pilosa Hochst. ex Miq., Nieuwe Verh. Eerste Kl. Kon. Ned. Inst. Wetensch. Amsterdam. 3, Pt. 4: 30. 1851, nom. invalid as syn of *Arundinella ciliata*. Type: India: “Mercara Ind. Or. Hochst. Hbrb. Hohenack. 647 in Sched.”

Arundinella agrostoides sensu Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 71. 1896, non Trin., 1836

Syntypes. India; *Wight s.n.* Prope Mercara; *Metz s.n.*

Distribution. Andhra Pradesh, Chhattisgarh, Dadra and Nagar Haveli, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Tamil Nadu.

Habit. Annual.

828. *Arundinella decempedalis* (Kuntze) Janowski, Repert. Spec. Nov. Regni Veg. 17: 84. 1921

Panicum decempedale Kuntze, Revis. Gen. Pl. 2: 783. 1891. Type: Sikkim Himalaya, Terai; January 15, 1875; *Kuntze* 6581

Arundinella clarkei Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 75–76. 1896. Type: India: Sikkim, Terai; *C.B. Clarke s.n.*

Distribution. Assam, Sikkim, West Bengal [China, Myanmar].

Habit. Annual.

829. *Arundinella hirta* (Thunb.) Tanaka, Bult. Sci. Fak. Terk. Kjusu Imp. Univ. 1: 196, 208. 1925

Poa hirta Thunb., in J.A. Murray, Syst. Veg. ed. 14: 104. 1784. Type: Japonia.

Arundinella anomala Steud., Syn. Pl. Gl. 1:116. 1854. Type: Japan; *Anonymous s.n.* [Siebold].

Distribution. Assam.

Habit. Perennial.

Remarks. Record for Assam fide Naithani (1990).

830. *Arundinella holcoides* (Kunth) Trin., Bull. Sci. Acad. Imp. Sci. Saint-Pétersbourg 1: 71. 1836.

Brandtia holcoides Kunth, Révis. Gramin. 2: 511. 1831. Type: Burma. Crescit in Pegu, *M. Reynaud s.n.*

Arundinella pubescens Merr. & Hack., Philipp. J. Sci., C 2: 419. 1907. Philippine Islands: Palawan: May 1906, F.W. Foxworthy BS 856

Arundinella birmanica Hook. f., Fl. Brit. India 7: 73. 1896.

Arundinella hirsuta Nees, Syn. Pl. Glumac. (Steudel) 1: 115. 1854 Type: Himalaya: Coutrallum; Numer. List [Wallich] no. 8671

Distribution. Karnataka, Maharashtra, Himalaya.

Habit. Annual.

Remarks. The circumscription and synonymy of this species are unclear and need to be carefully re-evaluated.

831. *Arundinella hookeri* Munro ex Keng, Sci. Rep. Natl. Centr. Univ., Ser. B 2(3): 50. 1936

Arundinella villosa Arn. ex Steud. var. *himalaica* Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 73. 1896. Syntypes: Bhutan, East Nepal and Sikkim Himalaya, alt. 6000–11000 ft.; *Griffith s.n.*, *J.D. Hooker & C.B. Clarke s.n.*

Type. India: South of Yonsum, Sikkim Himalaya; 1888; *King's collector s.n.* Pulney Hills; *Madras Herb* 16526.

Distribution. Sikkim, Tamil Nadu, West Bengal [Bhutan, China, Myanmar, Nepal].

Habit. Perennial.

832. *Arundinella intricata* Hughes, Bull. Misc. Inform. Kew 1920: 112. 1920

Syntypes. India: Khasia Hills, Maosmai, alt. 4000 ft.; *C.B. Clarke* 16588 (K). Mahadeo, alt. 3000 ft.; *Clarke* 155622 (K). India: Khasia Hills, Amwé, 4000–4700 ft.; *J.D. Hooker s.n.* (K). Boga-Panee, 4000–6000 ft.; *J.D. Hooker s.n.* (K). India: Arbor Country, Dihang River, bank near Ritung; *I. J. Burkill* 373 (K).

Distribution. Arunachal Pradesh, Assam, Karnataka, Meghalaya [Bhutan, China]

Habit. Perennial.

Remarks. Record for Arunachal Pradesh, Assam, and Meghalaya fide Naithani (1990).

833. *Arundinella khaseana* Nees, Syn. Pl. Glumac. (Steudel) 1: 115. 1854

Type. India: Jugum Khasea; Numer. List [Wallich] no. 8672.

Distribution. Assam, Meghalaya [China, Myanmar].

Habit. Perennial.

834. *Arundinella leptochloa* (Nees) Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 76. 1896

Panicum leptochloa Nees, Syn. Pl. Glumac. (Steudel) 1: 62. 1853. Type: India orientalis; *Wight Herb. no. 125*

Arundinella gigantea Dalzell in Dalzell & A. Gibson, Bombay Fl. 293. 1861. Type: India: Ghauts, Kineshwur; *Dalzell s.n.*

Arundinella lawsonii Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 76. 1896 (as “lawsoni”). Type: India: Tamil Nadu, Nilghiri Hills, Goodaloor, alt. 3000 ft.; *Lawson s.n.*

Distribution. Dadra and Nagar Haveli, Goa, Gujarat, Karnataka, Kerala, Maharashtra, Rajasthan, Tamil Nadu [Sri Lanka].

Habit. Perennial.

835. *Arundinella mesophylla* Nees, Syn. Pl. Glumac. (Steudel) 1: 115. 1854

Type. India: Courtallum; Numer. List [Wallich] no. 8663.

Distribution. Karnataka, Kerala, Tamil Nadu.

Habit. Annual.

836. *Arundinella metzii* Hochst. ex Miq., Nieuwe Verh. Eerste Kl. Kon. Ned. Inst. Wetensch. Amsterdam ser. 3, 4: 31. 1851

Arundinella decomposita Janowski, Repert. Spec. Nov. Regni Veg. 17: 84. 1921. Type: India; *Meebold 10760*

Arundinella lawii Hook. f. in Trimen, Handb. Fl. Ceylon 5: 180. 1900. Syntypes: Sri Lanka: without precise locality; Ferguson in Herb. Peraden. India: Concan, Malabar; *J.E. Stocks s.n.*

Arundinella pygmaea Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 72. 1896. Type: India: North Canara; *Lisboa s.n.*

Type. India: Karnataka, Mangalore; *Metz Herb. no. 297.*

Distribution. Goa, Karnataka, Kerala, Tamil Nadu [Sri Lanka].

Habit. Annual.

837. *Arundinella muthikulamensis* Sunil, K.M.P. Kumar, & V.P. Thomas, Webbia 72(1): 101. 2017.

Type. India: Kerala, Palghat District, Muthikulam, Elivalmala, 2100 m, 11 November 2016, *Sunil & K. M. Prabhukumar 4565* (holotype: CMPR; isotypes: MH, SNMH, CATH).

Distribution. Kerala.

Habit. Perennial.

838. *Arundinella nepalensis* Trin., Gram. Panic. [Trinius] 62. 1826

Acratherum miliaceum Link, Hort. Berol. [Link] 1: 230. 1827. Type: "Habitat in Nepalia."

Arundinella miliacea (Link) Nees, Hooker's J. Bot. Kew Gard. Misc. 2: 102. 1890

Arundinella glabra Hook. & Arn., Bot. Beechey Voy. 5: 237. 1837. Type: "Hab. Prope Macao"; *G.H. Vachell s.n.* (E?).

Arundinella ritchei Munro ex Lisboa, J. Bombay Nat. Hist. Soc. 5: 343. 1890. Type: India: Maharashtra, Common in Thana, Salsette and Lanowli; *Munro s.n.* (Herbarium of Poona College of Science).

Arundinella virgata Janowski, Repert. Spec. Nov. Regni Veg. 17: 84–85. 1921. Type: China: South China; 1865; *W. Hillebrand s.n.* (B).

Type. Nepal; *Wallich s.n. in Herb. Lindley* (LE).

Distribution. Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Himachal Pradesh, Karnataka, Kerala, Maharashtra, Meghalaya, Nagaland, Sikkim, Tamil Nadu, Uttar Pradesh, Uttarakhand, West Bengal [Bhutan, China, Nepal, Pakistan].

Habit. Perennial.

839. *Arundinella nervosa* (Roxb.) Nees ex Hook. & Arn., Bot. Beechey Voy. 5: 237. 1837

Holcus nervosus Roxb., Fl. Ind. (Carey and Wallich ed.) 1: 320. 1820. Type: India: A native of Coromandel.

Distribution. Goa, Himachal Pradesh, Karnataka, Kerala, Maharashtra, Tamil Nadu.

Habit. Annual.

840. *Arundinella pradeepiana* Sunil & Naveen Kum., *Webbia* 69(2): 249. 2014.

Type. India: Kerala, Eranakulam district, Edamalayar forest range, Variyam, 800 m, 16 November 2013, *Sunil & Naveen Kumar* 6228 (holotype: CAL; isotype: MH, CALI).

Distribution. Kerala.

Habit. Annual.

841. *Arundinella pumila* (Hochst. ex A. Rich.) Steud., *Syn. Pl. Glumac.* 1: 114. 1854

Acratherum pumilum Hochst. ex A. Rich., *Tent. Fl. Abyss.* 2: 414. t. 100. 1850–1851.

Type: “Crescit in pratis circa Aderbati in regno Tigre, mense Septembre (Quartin Dillon). Lectotype: Ethiopia: “in vallibus prope Adde Arbati”; October, 1839; *Schimper* 642 (B). LT cited by van der Zon, *Gram. Cameroun* 2: 361. 1992.

Arundinella tenella Nees, *Syn. Pl. Glumac.* (Steudel) 1: 115. 1854. Type: India; *Wight herb. no. 76*, *Royle herb. no. 268*

Distribution. Andhra Pradesh, Assam, Bihar, Chhattisgarh, Dadra and Nagar Haveli, Goa, Gujarat, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Meghalaya, Odisha, Rajasthan, Tamil Nadu, Uttar Pradesh, Uttarakhand, West Bengal [Myanmar, Nepal, Sri Lanka].

Habit. Annual.

842. *Arundinella purpurea* Hochst. ex Steud., *Syn. Pl. Glumac.* 1: 115. 1854 var. *purpurea*

Arundinella fuscata sensu Hook. f., *Fl. Brit. India* (J.D. Hooker). 7(21): 74. 1896, non Nees ex Buese, 1854

Type. India: Tamil Nadu, Nilagiri Mountain; *Hohenacker* 928 (P).

Distribution. Andhra Pradesh, Karnataka, Kerala, Maharashtra, Tamil Nadu.

Habit. Perennial.

843. *Arundinella purpurea* Hochst. ex Steud. var. *laxa* Bor, *Kew Bull.* 1955: 407. 1955

Type. India: Madras, Sispara, alt. 6700 ft.; *J.S. Gamble* 13365.

Distribution. Karnataka, Kerala, Tamil Nadu.

Habit. Perennial.

Remarks. Record for Kerala fide Naithani (1990).

844. *Arundinella ravii* Shaju & N. Mohanan, *Rheedea* 14(1–2): 47–50. f. 1. 2004

Type. India: Kerala, Idukki District, Eravikulam National Park, 6000 ft.; November 8, 2000; *Shaju 43700* (TBGT).

Distribution. Kerala.

Habit. Annual.

845. *Arundinella setosa* Trin., *Gram. Panic.* [Trinius] 63. 1826 var. *setosa*

Arundinella bidentata Keng, J. Wash. Acad. Sci. 21(8): 159. 1931. Type: China: Fujian, Kuliang, moist hillsides and open lands, alt. 2500 ft.; July 30, 1919; *J.B. Norton 1154* (US-1270758).

Arundinella capillaris Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 74. 1896. Type: India: Deccan; *Heyne s.n.* Pulney Hills; *Herb. Wight no. 3338* Amsterdam. 3, Pt. 4: 30. 1851]. Type: Himalaya: Coutrallum; Numer. List [Wallich] no. 8671

Arundinella mutica Nees, Syn. Pl. Glumac. (Steudel) 1: 116. 1854. Type: India; *Heyne s.n.* (Numer. List [Wallich] no. 8665)

Arundinella setifera Steud., Syn. Pl. Glumac. 1: 115. 1854. Type: India: Nilagerry Mountains; *Hohenacker 920*

Arundinella sinensis Rendle, J. Linn. Soc., Bot. 36: 342. 1904. Type: China: Kwangtung; *C. Ford 212*, *C. Ford 201* (BM). China: Guangdong, Lofaushan; *Ford 125*

Arundinella stricta Nees, Hooker's J. Bot. Kew Gard. Misc. 2: 102. 1850

Arundinella zollingeri Steud., Syn. Pl. Glumac. 1: 115. 1854. Type: Java; *Zollinger 2034*

Miquelia barbulata Nees, Nov. Actorum Acad. Caes. Leop.-Carol. Nat. Cur., Suppl. 19(1): 178. 1843. Type: "In Promontorio Syng-moon." Hong Kong; Julio; *F.J.F. Meyen s.n.*

Berghausia barbulata (Nees) Endl. ex Miq., Nieuwe Verh. Eerste Kl. Kon. Ned. Inst. Wetensch. Amsterdam ser. 3, 4: 32. 1851

Danthonia luzoniensis Steud., Syn. Pl. Glumac. 1: 245. 1854. Type: Philippines: Luzon; *Cuming herb. no. 1415*

Danthonia neuroelytrum Steud., Syn. Pl. Glumac. 1: 245. 1854. Type: China; *Fortune Herb. No. 5* (P).

Milium ciminoides Roxb. ex Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 70. 1896, nom. nud.

Type. Nepal; *Lindley s.n.* (LE).

Distribution. Andhra Pradesh, Assam, Arunachal Pradesh, Bihar, Dadra and Nagar Haveli, Gujarat, Himachal Pradesh, Karnataka, Kerala, Maharashtra, Meghalaya, Nagaland, Odisha, Tamil Nadu, Uttar Pradesh, West Bengal [Bhutan, China, Myanmar, Nepal, Sri Lanka].

Habit. Perennial.

846. *Arundinella setosa* Trin. var. *esetosa* Bor, Grasses Burma, Ceylon, India & Pakistan 425. 1960

Syntypes. India: Bihar; *T. Thomson s.n.* Nepal: Western part; *Stainton, Sykes & Williams* 4255, 4461.

Distribution. Andhra Pradesh, Bihar, Tamil Nadu, Uttar Pradesh [China, Myanmar, Nepal].

Habit. Perennial.

Remarks. Records for Bihar and Tamil Nadu fide Naithani (1990).

847. *Arundinella setosa* Trin. var. *lanifera* C.E.C. Fisch., Fl. Madras 3(10): 1801. 1934

Type. India: Cuddapa District, Mogili Kuppa, alt. 6000 ft.; *Meebold s.n.*

Distribution. Andhra Pradesh, Arunachal Pradesh, Karnataka, Madhya Pradesh, Tamil Nadu, Uttar Pradesh.

Habit. Perennial.

Remarks. Records for Andhra Pradesh and Madhya Pradesh fide Naithani (1990).

848. *Arundinella setosa* Trin. var. *nilagiriana* Subba Rao & Kumari, J. Bombay Nat. Hist. Soc. 72: 827. 1976

Type. India: Tamil Nadu, Nilgiri District, Koilbetta; September 11, 1970; *G.V. Subba Rao & G.R. Kumari* 19795A (CAL).

Distribution. Andhra Pradesh, Arunachal Pradesh, Karnataka, Madhya Pradesh, Tamil Nadu, Uttar Pradesh.

Habit. Perennial.

Remarks. Record for Tamil Nadu fide Naithani (1990).

849. *Arundinella spicata* Dalzell in Dalzell & A. Gibson, Bombay Fl. 293. 1861

Type. India: Maharashtra, Mahableshwur Hills; *Dalzell s.n.*

Distribution. Karnataka, Maharashtra, Rajasthan.

Habit. Annual.

850. *Arundinella thirunelliensis* Sunil, Ratheesh, & Sivad., Bangladesh J. Pl. Taxon. 21(2): 153. 2014.

Type. India: Kerala, Wayanad District, Thirunelli, Kalindi riverbed, 900 m, 8 December 2012, *Sunil & Ratheesh Narayanan 4854* (Holotype: CAL; Isotypes: MH).

Distribution. Kerala.

Habit. Perennial.

851. *Arundinella tuberculata* Munro ex Lisboa, J. Bombay Nat. Hist. Soc. 5: 344. 1890

Type. India: Poona and Konkan; *Munro s.n.* (Herbarium of Poona College of Science).

Distribution. Bihar, Goa, Gujarat, Karnataka, Kerala, Maharashtra, Tamil Nadu.

Habit. Annual.

852. *Arundinella vaginata* Bor, J. Indian Bot. Soc. 27: 66. 1948

Arundinella villosa Arn. ex Steud. var. *heynei* Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 73. 1896 (as “heyne”). Type: India; *Heyne s.n.* (Numer. List [Wallich] no. 8663A). Courtallam; *Wight s.n.*

Type. India: Madras, Palni Hills; *Rev. A. Sauliere 817* (K).

Distribution. Kerala, Tamil Nadu.

Habit. Perennial.

853. *Arundinella villosa* Arn. ex Steud., Syn. Pl. Glumac. 1: 115. 1854

Type. Sri Lanka; *Wight 2037*.

Distribution. Karnataka, Meghalaya, Tamil Nadu [Sri Lanka].

Habit. Perennial.

Bhidea Stapf ex Bor, Kew Bull. 1948: 445. 1949

Type. *Bhidea burnsiana* Bor.

854. *Bhidea borii* Deshp., V. Prakash & N.P. Singh, Curr. Sci. 58(19): 1094. 1989**Distribution.** India.**Habit.** Annual.**Remarks.** Distribution within India not recorded.**855. *Bhidea burnsiana* Bor, Kew Bull. 1948: 445. 1949****Type.** India: Bombay Lonavla; August, 1918; *R.K. Bhide s.n.* (K).**Distribution.** Karnataka, Kerala, Maharashtra.**Habit.** Annual.**Remarks.** Records for Karnataka and Maharashtra fide Naithani (1990).**856. *Bhidea fischeri* Sreek. & B. V. Shetty, Kew Bull. 42(3): 683. 1987****Type.** India: Kerala, Cannanore District, Mukkarikandam, alt. 160 ft.; October 18, 1981; *P.V. Sreekumar 71754* (CAL).**Distribution.** Kerala, Maharashtra.**Habit.** Annual.***Bothriochloa* Kuntze, Revis. Gen. Pl. 2: 762. 1891****Type.** *Bothriochloa anamitica* Kuntze.**857. *Bothriochloa bladhii* (Retz.) S.T. Blake, Proc. Roy. Soc. Queensland 80: 62. 1969***Andropogon bladhii* Retz., Observ. Bot. (Retzius) 2: 27. 1781. Type: “In China lectum cum aliis mislit bonorat, D. Bladh.” China; *Bladh s.n.* (LD).*Dichanthium bladhii* (Retz.) Clayton, Kew Bull. 32(1): 3. 1977*Andropogon intermedius* R. Br., Prodr. Fl. Nov. Holland. 1: 202. 1810. Type: Australia: “Keppel Bay” (North West end of Curtis Island); *Brown 6184* (BM).*Amphilophis intermedia* (R. Br.) Stapf, Agric. News (Barbados) 15(368): 179. 1916*Bothriochloa intermedia* (R. Br.) A. Camus, Ann. Soc. Linn. Lyon ser. 2, 76: 164. var. *Intermedia**Andropogon caucasicus* Trin., Mém. Acad. Imp. Sci. St.-Pétersbourg, Sér. 6, Sci. Math. 2(3): 286. 1832. Type: “V. spp. e Cauc. orient.”*Dichanthium caucasicum* (Trin.) S.K. Jain & Deshp., Bull. Bot. Surv. India 20(1–4): 133. 1979 (“1978”)

- Sorghum caucasicum* (Trin.) Griseb., Fl. Ross. [Ledebour] 4: 476. 1853
Bothriochloa caucasica (Trin.) C.E. Hubb. Bull. Misc. Inform. Kew 1939: 101. 1939
Andropogon intermedius R. Br. var. *caucasicus* (Trin.) Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 486. 1889
Andropogon glaber Roxb., Fl. Ind. (Carey and Wallich ed.) 1: 271. 1820. Type: "A native of Mountainous countries." India: Bengal; *Roxburgh s.n.* (BM).
Bothriochloa glabra (Roxb.) A. Camus, Ann. Soc. Linn. Lyon ser. 2, 76: 164. 1931
Dichanthium glabrum (Roxb.) S.K. Jain & Deshp., Bull. Bot. Surv. India 20(1-4): 134. 1979 ("1978")
Amphilophis glabra (Roxb.) Stapf, Fl. Trop. Afr. [Oliver et al.] 9: 172. 1917
Andropogon haenkei J. Presl in C. Presl, Reliq. Haenk. 1(4-5): 340. 1830. Type: "Habitat in Marianis, in Luzonia." Philippines: Luzone; *Haenke s.n.* (PR).
Andropogon leptanthus Steud., Syn. Pl. Glumac. 1: 391. 1854. Type: India; *Cuming 1400*
Andropogon punctatus Roxb., Fl. Ind. (Carey and Wallich ed.) 1: 268. 1820. Type: India; "a Mountain grass."
Bothriochloa intermedia (R. Br.) A. Camus var. *punctata* (Roxb.) Keng, Clav. Gen. Sp. Gram. Prim. Sin. 244. 1957
Andropogon vachellii Nees ex Hook. & Arn., Bot. Beechey Voy. 6: 243. 1838. Type: "Hab. in vicinia urbis macao Imperii Chinensis et in insulis adjacentibus. Millet, G.H. Vachell, n. 50" China: Macao and adjacent islands; *Millet*; *G.H. Vachell 50* (E).
Andropogon odoratus Lisboa, J. Bombay Nat. Hist. Soc. 4: 118, 123. 1889. Syntypes: India: Bombay Presidency, Thana District; *Dymock s.n.* Lanowli; October, 1890; *Lisboa s.n.* (K).
Bothriochloa odorata (Lisboa) A. Camus, Ann. Soc. Linn. Lyon ser. 2, 76: 165. 1931
Amphilophis odorata (Lisboa) A. Camus, Rev. Bot. Appl. Agric. Colon. 1: 305. 1921
Dichanthium odoratum (Lisboa) S.K. Jain & Deshp., Bull. Bot. Surv. India 20(1-4): 134. 1979 ("1978")
Andropogon perfossus Nees & Meyen, ex Steud., Nomencl. Bot. [Steudel], ed. 2. 1: 92. 1840, nom. inval., cited as synonym of *A. punctatus* Roxb.

Distribution. Bihar, Chhattisgarh, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Rajasthan, Tamil Nadu, Uttar Pradesh, Uttarakhand, West Bengal [Bhutan, China, Myanmar, Nepal, Pakistan, Sri Lanka.

Habit. Perennial.

858. *Bothriochloa compressa* (Hook. f.) Henrard, Blumea 3(3): 456. 1940

- Andropogon compressus* Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 172. 1896. Syntypes: India: Deccan; *Lisboa* (no 6. *A. odoratus*) (K). Deccan; *Woodrow s.n.* (K).

Dichanthium compressum (Hook. f.) S.K. Jain & Deshp., Bull. Bot. Surv. India 20(1–4): 133. 1979 (“1978”)

Distribution. Maharashtra, Tamil Nadu.

Habit. Perennial.

859. *Bothriochloa ensiformis* (Hook. f.) Henrard, Blumea 3(3): 457. 1940

Andropogon ensiformis Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 175. 1896. Type: India: the Concan; *Dalzell s.n.*

Distribution. Karnataka.

Habit. Perennial.

860. *Bothriochloa grahamii* (Haines) Bor, Grasses Burma, Ceylon, India & Pakistan 107. 1960

Andropogon grahamii Haines, Bull. Misc. Inform. Kew 1914: 189. 1914. Type: India: Central Provinces, Amakantak Hills, often gregarious in old jhumed lands (bewars); *Haines 3646* (K).

Dichanthium grahamii (Haines) Deshp., Fasc. Fl. India 15: 14. 1984

Type. India: Madhya Pradesh; *H.H. Haines 3646* (K).

Distribution. Madhya Pradesh.

Habit. Perennial.

861. *Bothriochloa insculpta* (Hochst. ex A. Rich.) A. Camus, Ann. Soc. Linn. Lyon ser. 2, 76: 165. 1931

Andropogon insculptus Hochst. ex A. Rich., Tent. Fl. Abyss. 2: 458. 1850–1851. Type: “Crescit in montosis provincial Chire (Quartin Dillon), et in terra sicca ad radices montis Selleuda, prope Adoua, mense Septembre (Schimper).” Lectotype: Ethiopia: Tigray, Scholoda; September 22, 1837; *Schimper 80* (US-76201 (fragm)). LT designated (as “holotype”) by Marchi & Longhi-Wagner in Bol. Inst. Bioci. Univ. Fed. Rio Grande do Sul 57: 38. 1998.

Amphilophis insculpta (Hochst. ex A. Rich.) Stapf, Fl. Trop. Afr. [Oliver et al.] 9: 176. 1917

Andropogon pertusus (L.) Willd. var. *insculptus* (Hochst. ex A. Rich.) Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 174. 1896

Dichanthium insculptum (Hochst. ex A. Rich.) Clayton, Kew Bull. 32(1): 3. 1977

Andropogon subunifoveolatus Steud., Syn. Pl. Glumac. 1: 380. 1854, in nota. Type: India: Tamil Nadu, Nilagiri Mountains; *R.F. Honenacker no. 918*

Distribution. Bihar, Karnataka, Kerala, Maharashtra, Tamil Nadu [also in Africa, South America].

Habit. Perennial.

862. *Bothriochloa ischaemum* (L.) Keng, Contr. Biol. Lab. Sci. Soc. China, Bot. Ser. 10: 201. 1936

Andropogon ischaemum L., Sp. Pl. 2: 1047. 1753. Type: "Habitat in Europae australioris aridis." Lectotype: *Herb. Linn. No. 1211.26* (LINN). LT designated by Marchi & Longhi-Wagner in Bol. Inst. Bioci. Univ. Fed. Rio Grande do Sul 57: 41. 1998.
Dichanthium ischaemum (L.) Roberty, Boissiera 9: 160. 1960

Distribution. Gujarat, Jammu and Kashmir, Manipur, Punjab, Rajasthan, Madhya Pradesh, Tamil Nadu, Uttar Pradesh [Afghanistan, China, Pakistan].

Habit. Perennial.

863. *Bothriochloa kuntzeana* (Hack.) Henrard, Blumea 3(3): 456. 1940

Andropogon kuntzeanus Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 478. 1889. Type: Peninsular Indiae orientalis: Assirgar; *Kuntze s.n.* (NY).
Amphilophis kuntzeana (Hack.) Haines, Bot. Bihar Orissa 5: 1031. 1924
Dichanthium kuntzeana (Hack.) S.K. Jain & Deshp., Bull. Bot. Surv. India 20(1-4): 134. 1979 ("1978")
Eulalia clarkei Haines, Bot. Bihar Orissa 5: 1017. 1924. Type: India: Singbhum, alt. 2500 ft.; *C.B. Clarke 20551*

Distribution. Andhra Pradesh, Bihar, Kerala, Madhya Pradesh, Maharashtra, Tamil Nadu, Uttar Pradesh, Uttarakhand [Pakistan].

Habit. Perennial.

864. *Bothriochloa longifolia* (Hack.) Bor, Grasses Burma, Ceylon, India & Pakistan 108. 1960

Andropogon pertusus (L.) Willd. var. *longifolius* Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 482. 1889. Type: India: Madras; Numer. List [Wallich] no. 8803

Distribution. Tamil Nadu.

Habit. Perennial.

865. *Bothriochloa parameswaranii* Sreek., Malathi, & V.J. Nair, J. Bombay Nat. Hist. Soc. 85(1): 163–165. 1988

Type. India: Kerala, Idukki District, Eravikulam National Park, alt. 6800 ft.; February 14, 1981; *P.V. Sreekumar* 71858 (CAL).

Distribution. Kerala.

Habit. Perennial.

Remarks. Not recognized by Clayton et al. (2006 onwards).

866. *Bothriochloa pertusa* (L.) A. Camus, Ann. Soc. Linn. Lyon ser. 2, 76: 164. 1931

Holcus pertusus L., Mant. Pl. Altera 301–302. 1771. Type: “Habitat in India orientali.”
Lectotype: *Herb. Linn. No. 1212.16* (LINN). LT designated by Clayton in Kew Bull. 32: 4. 1977.

Amphilophis pertusa (L.) Nash ex Stapf, Agric. News (Barbados) 15(368): 179. 1916

Andropogon pertusus (L.) Willd., Sp. Pl., ed. 4 [Willdenow] 4: 922. 1806

Dichanthium pertusum (L.) Clayton, Kew Bull. 32(1): 4. 1977

Lepeocercis pertusa (L.) Hassk., Pl. Jav. Rar. (Hasskarl) 52. 1848

Andropogon angustifolius sensu Parl., Fl. Palerm. 1: 269. 1845, non Sibth. & Sm., 1806

Elionurus pertusus Nees ex Steud., Syn. Pl. Glumac. 1: 364. 1854, nom. inval., pro. syn.

Distribution. Andhra Pradesh, Assam, Bihar, Chhattisgarh, Daman and Diu, Delhi, Goa, Gujarat, Jammu and Kashmir, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Punjab, Rajasthan, Tamil Nadu, Uttar Pradesh, West Bengal [Afghanistan, China, Myanmar, Nepal, Pakistan, Sri Lanka].

Habit. Perennial.

867. *Bothriochloa pseudoischaemum* (Nees) Henrard, Blumea 3(3): 457. 1940

Andropogon pseudoischaemum Nees, Syn. Pl. Glumac. (Steudel) 1: 380. 1854. Type: India orientalis; *Heyne s.n.* (Numer. List [Wallich] no. 8815)

Dichanthium pseudoischaemum (Nees) S.K. Jain & Deshp., Bull. Bot. Surv. India 20(1–4): 134. 1979 (“1978”)

Amphilophis pseudoischaemum (Nees) Alston in H. Trimen, Handb. Fl. Ceylon 6: 331. 1931 (as “*pseudischaemum*”)

Distribution. Andhra Pradesh, Karnataka, Kerala, Tamil Nadu [Pakistan, Sri Lanka].

Habit. Perennial.

868. *Bothriochloa woodrovii* (Hook. f.) A. Camus, Ann. Soc. Linn. Lyon ser. 2, 76: 165. 1931

Amphilophis woodrovii (Hook. f.) A. Camus, Rev. Bot. Appl. Agric. Colon. 1: 305. 1921

Andropogon woodrovii Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 173. 1896. Type: India: Bombay, Mawal; December, 1894; *Woodrow* 27 (K).

Dichanthium woodrovii (Hook. f.) S.K. Jain & Deshp., Bull. Bot. Surv. India 20(1–4): 134. 1979 (“1978”) (as “woodrowii”)

Distribution. Maharashtra.

Habit. Perennial.

***Capillipedium* Stapf, Fl. Trop. Afr. [Oliver et al.] 9: 11, 169. 1917**

Lectotype. *Capillipedium parviflorum* (R. Br.) Stapf (*Holcus parviflorus* R. Br.). LT probably designated by G. Roberty, Boissiera 9: 1–455. 1960).

869. *Capillipedium assimile* (Steud.) A. Camus, Fl. Indo-Chine [P.H. Lecomte et al.] 7: 314. 1922

Andropogon assimilis Steud., Syn. Pl. Glumac. 1: 397. 1854. Type: Java; *Zollinger Herb.* 859 (P).

Dichanthium assimile (Steud.) Deshp., Fasc. Fl. India 15: 6. 1984

Andropogon glaucopsis Steud., Syn. Pl. Glumac. 1: 397. 1854. Type: Nepal, China; Numer. List [Wallich] no. 8786

Capillipedium glaucopsis (Steud.) Stapf, Hooker’s Icon. Pl. 31: t. 3085. 1922

Andropogon subrepens Steud., Syn. Pl. Glumac. 1: 397. 1854. Type: Nepal, China; Numer. List [Wallich] no. 8790, 8789

Capillipedium subrepens (Steud.) Henrard, Blumea 3(3): 463. 1940

Andropogon montanus sensu Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 490. 1889, non Roxb., 1820

Distribution. Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Chhattisgarh, Himachal Pradesh, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Nagaland, Odisha, Rajasthan, Sikkim, Tamil Nadu, Uttar Pradesh, Uttarakhand, West Bengal [Bangladesh, Bhutan, China, Myanmar, Nepal, Pakistan].

Habit. Perennial.

870. *Capillipedium filiculme* (Hook. f.) Stapf, Hooker's Icon. Pl. 31: sub t. 3085. 1922

Andropogon filiculmis Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 181. 1896. Syn-types: India: the Deccan, Poonah, in rocky places; *Jacquemont 310*. Mawar, Dhomsa; *Woodrow 26* (K).

Dichanthium filiculme (Hook. f.) S.K. Jain & Deshp., Bull. Bot. Surv. India 20(1–4): 134. 1979 (“1978”)

Distribution. Gujarat, Karnataka, Kerala, Maharashtra, Tamil Nadu.

Habit. Annual.

871. *Capillipedium huegelii* (Hack.) A. Camus, Rev. Bot. Appl. Agric. Colon. 1(4): 306. 1921

Andropogon huegelii Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 492. 1889 (as “hügelii”). Type: Asia; *Hügel 2243* “in h. Vind. verisimiliter, ut ex num. cit. patet in India ad pedes Himalayae lectus.”

Dichanthium huegelii (Hack.) S.K. Jain & Deshp., Bull. Bot. Surv. India 20(1–4): 135 1979 (“1978”)

Distribution. Andhra Pradesh, Gujarat, Karnataka, Madhya Pradesh, Maharashtra, Rajasthan, Sikkim, Tamil Nadu, Uttar Pradesh.

Habit. Annual.

872. *Capillipedium magdalenae* M.R. Almeida, J. Bombay Nat. Hist. Soc. 72: 813. 1976 (as “magdaleni”)

Dichanthium magdalenae (M.R. Almeida) S.K. Jain & Deshp., Bull. Bot. Surv. India 20(1–4): 135. 1979 (“1978”) (as “magdaleni”)

Type. India: Karnataka, Agumbe; November, 1972; *M.R. Almeida 2566* (BLAT).

Distribution. Karnataka.

Habit. Annual.

873. *Capillipedium nagense* Bor, Brittonia 16: 228. 1964

Dichanthium nagense (Bor) Deshp., Bull. Bot. Surv. India 21(1–4): 198. 1981 (“1979”)

Type. India: Assam, Naga Hills, Dzulake Valley alt. 8500 ft.; September, 1993; *N.L. Bor's collector 353* (K).

Distribution. Assam, Nagaland.

Habit. Perennial.

874. *Capillipedium parviflorum* (R. Br.) Stapf, Fl. Trop. Afr. [Oliver et al.] 9: 169. 1917

Holcus parviflorus R. Br., Prodr. Fl. Nov. Holland. 1: 199. 1810. Type: Australia; *R. Brown s.n.* (BM).

Anatherum parviflorum (R. Br.) Spreng., Syst. Veg. (ed. 16) [Sprengel] 1: 290. 1824 ("1825")

Dichanthium parviflorum (R. Br.) De Wet & J. R. Harlan, Amer. J. Bot. 54(3): 384. 1967

Sorghum parviflorum (R. Br.) P. Beauv., Ess. Agrostogr. 165. 1812

Andropogon alternans J. Presl in C. Presl, Reliq. Haenk. 1(4–5): 342. 1830. Type: "Habitat in Peruvia." Philippines: Luzon island; *Haenke s.n.* (US-76233 (fragm.)).

Andropogon micranthus Kunth, Révis. Gramin. 1: 165. 1829

Andropogon quartinianus A. Rich., Tent. Fl. Abyss. 2: 469. 1850–1851. Type: "Crescit in planitie montosa Beless, provinciae Chire, mense Octobre (Quartin Dillon)."

Sorghum quartinianum (A. Rich.) Schweinf., Beitr. Fl. Aethiop. 306. 1867

Andropogon parvispica Steud., Syn. Pl. Glumac. 1: 397. 1854. Type: Nepal; *Royle 283*

Chrysopogon parvispicus (Steud.) Will. Watson in Atkins., Bot. Himalayan Distr. N. W. Prov. 392. 1882 (as "parvispica")

Andropogon capilliflorus Steud., Syn. Pl. Glumac. 1: 397. 1854. Type: Java, Japonica

Chrysopogon violascens Trin., Mém. Acad. Imp. Sci. St.-Pétersbourg, Sér. 6, Sci. Math. 2: 319. 1832. Type: "Andropogon violascens N. Ab Es. In Sieb. Agrostoth. no. 65". "V. ssp. nov. Holl."

Andropogon violascens (Trin.) Nees, Syn. Pl. Glumac. (Steudel) 1: 396. 1854

Holcus caerulescens Gaudich., Voy. Monde, Phan. 10: 411, t. 27. 1829. Type: "Habitat in Novae-Hollandiae ora orientali; Port-Jackson."

Rhaphis caerulescens (Gaudich.) Desv., Opusc. Sci. Phys. Nat. 69. 1831

Andropogon serratus sensu Miq., Ann. Mus. Bot. Lugduno-Batavi 2: 290. 1866, non Thunb., 1784

Rhaphis microstachya Nees ex Steud., Syn. Pl. Glumac. 1: 397. 1854, nom. inval., cited as synonym of *A. parvispica*

Rhaphis villosula Nees ex Steud., Syn. Pl. Glumac. 1: 397. 1854, nom. inval., cited as synonym of *A. villosulus*

Chrysopogon parviflorus (R. Br.) Benth., Fl. Austral. 7: 537. 1878, isonym, non (R. Br.) Nees, 1843

Distribution. Andhra Pradesh, Assam, Bihar, Himachal Pradesh, Jammu and Kashmir, Jharkhand, Sikkim, Madhya Pradesh, Manipur, Meghalaya, Nagaland, Odisha, Rajasthan, Uttar Pradesh, Uttarakhand, West Bengal [Bhutan, China, Myanmar, Nepal, Pakistan].

Habit. Perennial.

875. *Capillipedium planipedicellatum* Bor, Kew Bull. 1949: 222. 1949

Dichanthium planipedicellatum (Bor) S.K. Jain & Deshp., Bull. Bot. Surv. India 20(1–4): 135. 1979 (“1978”)

Filipedium planipedicellatum (Bor) Raizada & S.K. Jain, J. Bombay Nat. Hist. Soc. 49: 683. 1951

Type. India: Manipure State, Palel, alt. 2500 ft.; October 10, 1942; *N.L. Bor 17059* (K).

Distribution. Manipur.

Habit. Perennial.

876. *Capillipedium pteropechys* (C.B. Clarke) Stapf, Hooker’s Icon. Pl. 31: sub t. 3085. 1922

Andropogon pteropechys C.B. Clarke, J. Linn. Soc., Bot. 25: 88. t. 38. 1899. Syntypes: India: Kohima, alt. 5500 ft.; *C.B. Clarke 41187* (K). Jakpho, alt. 7500 ft.; *C.B. Clarke 41896* (K).

Dichanthium pteropechys (C.B. Clarke) S.K. Jain & Deshp., Bull. Bot. Surv. India 20(1–4): 135. 1979 (“1978”). Type: India: Naga Hills, Kohima edge; *C.B. Clarke 61896A* (CAL).

Distribution. Manipur, Nagaland.

Habit. Perennial.

***Chionachne* R. Br., Pl. Jav. Rar. (Bennett) 15, 18. 1838**

Type. *Chionachne barbata* (Roxb.) R. Br. ex Aitch (*Coix barbata* Roxb.).

877. *Chionachne digitata* (L.f.) E.A. Kellogg, comb. nov.

urn:lsid:ipni.org:names:77212132-1

Apluda digitata L.f., Suppl. Pl. 434. 1782 (“1781”). Type: “Habitat in India”; *Thunberg s.n.* *Polytoca digitata* (L.f.) Druce, Rep. Bot. Exch. Club Soc. Brit. Isles 1916, Suppl. 2: 641. 1917

Coix heteroclita Roxb., Fl. Ind. (Roxburgh) 3: 572. 1832. Type: India: Bengal; *Kyd s.n. A1810 in herb. Roxburgh* (BM, Icon. Ined. 2550= Numer. List [Wallich] no. 8627A, IDC microfiche 7394).

Polytoca heteroclita (Roxb.) Koord., Exkurs.-Fl. Java 1: 99. 1911

Polytoca bracteata R. Br., Pl. Rar. Jav. 20. t. 5. 1838. Type: Indonesia: Java, Prowoto Hills, 20 miles south of Semarang; 1809; *Horsfield 113* (BM).

Distribution. Assam, Bihar, Manipur, Meghalaya, Tripura, Sikkim, West Bengal [Myanmar].

Habit. Perennial.

Remarks. The above combination is made here to transfer *Polytoca digitata* (L.f.) Druce to *Chionachne*.

878. *Chionachne gigantea* (J. Koenig) Veldkamp, *Blumea* 47(3): 559. 2002

Coix gigantea J. Koenig, Naturforscher (Halle) 23: 211. 1788. Type: India: Andhra Pradesh, Circars; *Koenig s.n.* (BM, K, UPS, Herb. Thunberg 21727, IDC microfiche 1036).

Coix koenigii Spreng., Syst. Veg. (ed. 16) [Sprengel] 1: 239. 1824 ("1825"), nom. nov. for *Coix arundinacea* J.Koenig ex Willd.

Chionachne koenigii (Spreng.) Thwaites, Enum. Pl. Zeyl. (Thwaites). 357. 1864

Polytoca barbata (Roxb.) Stapf, Fl. Brit. India (J.D. Hooker). 7(21): 102. 1896

Coix lacryma-jobi L. var. *gigantea* (J. Koenig) Stapf, Fl. Brit. India (J.D. Hooker). 7(21): 100. 1896

Coix lingulata Hack., Oesterr. Bot. Z. 41: 5. 1891. Type: Burma: Shan Hills, Fort Stedmens, alt. 3000 ft.; *H. Collett. s.n.*

Coix barbata Roxb., Fl. Ind. (Roxburgh) 3: 569. 1832. Type: India: Andhra Pradesh, Northern Circars, Moist rice field; *Roxburgh s.n.* (BM, sh. 47254, Icon. Ined. 871=Numer. List [Wallich] no. 8626-A:K, IDC microfiche 7394).

Chionachne barbata (Roxb.) R. Br. ex Aitch., Cat. Pl. Punjab Sindh 157. 1869

Coix crypsoides C. Mull., Bot. Zeitung (Berlin) 19(45): 334. 1861. Type: Bengalia Indiae orientalis; *Griffith s.n.* (B (destroyed); IT: K).

Coix arundinacea J. Koenig ex Willd., Sp. Pl., ed. 4 [Willdenow] 4: 203. 1805, non Lam., 1791. Type: India: Transchaur, Rarissime; *De Friedland s.n.* (B-W-17908-b (IDC microfiche 7440)).

Distribution. Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Chhattisgarh, Gujarat, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Odisha, Rajasthan, Tamil Nadu, Tripura, West Bengal [Myanmar, Nepal, Pakistan, Sri Lanka].

Habit. Perennial.

Remarks. Some authors maintain *Chionachne* as distinct from *Polytoca* (Jannink and Veldkamp 2002), but Kellogg (2015b) combines them, pointing out that they are sister genera in molecular phylogenies and are morphologically similar.

879. *Chionachne punctata* (R. Br.) Jannink, *Blumea* 47(3): 566–567, f. 8. 2002

Sclerachne punctata R. Br., Pl. Jav. Rar. (Bennett) 15. t. 4. 1838. Type: Indonesia: Java, near Surakarta, Jebus village; *Horsfield s.n.* (BM).

Polytoca punctata (R. Br.) Stapf ex Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 102. 1896

Chionachne massii Balansa, J. Bot. (Morot) 4: 78. 1890. Type: “Cette espece a été trouvée par M. Massie, pharmacien de la marine, dans les environs de Sontay. Elle a été recueillie aussi a Bac-ninh par M. Brousemiche.”

Distribution. Andhra Pradesh, Karnataka, Maharashtra [Myanmar].

Habit. Annual.

880. *Chionachne semiteres* (Benth. ex Hook. f.) Henrard, *Meded. Rijks-Herb.* 67: 16. 1931

Polytoca semiteres Benth. ex Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 101. 1896. Type: Deccan Peninsula, Palamcottah; *Wight s.n.* Burma: Taong-dong Hills; *Wallich s.n.*

Distribution. Andhra Pradesh, Bihar, Maharashtra, Tamil Nadu [Myanmar].

Habit. Annual.

881. *Chionachne wallichiana* (Nees) E.A. Kellogg, *comb. nov.*

urn:lsid:ipni.org:names:77212133-1

Cyathorhachis wallichiana Nees, Syn. Pl. Glumac. (Steudel) 1: 403. 1854. Type: India; Numer. List [Wallich] no. 8629

Polytoca wallichiana (Nees) Benth., J. Linn. Soc., Bot. 19: 52. 1881

Distribution. Assam, Mizoram, Sikkim [Myanmar].

Habit. Annual.

Remarks. Records for Mizoram and Sikkim fide Naithani (1990). The above combination is made here to transfer *Polytoca wallichiana* (Nees) Benth. to *Chionachne*.

Chrysopogon* Trin., *Fund. Agrost.* (Trinius) 187. 1820, *nom. cons.

Type. *Chrysopogon gryllus* (L.) Trin. (*Andropogon gryllus* L.) (typ. cons.).

882. *Chrysopogon aciculatus* (Retz.) Trin., Fund. Agrost. (Trinius) 188. 1820

Andropogon aciculatus Retz., Observ. Bot. (Retzius) 5: 22. 1788 ("1789") (as "aciculatum"). Type: "Habitat in Indiae Orientalis sterilibus et ruderatis. Gramen aciculatum Rumph. Amb. VI. p. 14. pl. 5. f.1." Lectotype: India; *Koenig s.n. in herb. Retzius* (LD). LT designated by Veldkamp in *Austrobaileya* 5(3): 509. 1999.

Rhaphis aciculatus (Retz.) Desv., Opusc. Sci. Phys. Nat. 69. 1831 (as "aciculare")

Andropogon javanicus Steud., Syn. Pl. Glumac. 1: 396. 1854. Lectotype: Indonesia: Java; *Junghuhn s.n.* (P). LT designated by Veldkamp in *Austrobaileya* 5(3): 510. 1999.

Centrophorum chinense Trin., Fund. Agrost. (Trinius) 106. t. 5. 1820. Type: "Vidi ramum hujus Graminis singularis in Herbario ditissimo Gorenkensi."

Rhaphis trivialis Lour., Fl. Cochinch. 2: 553. 1790. Type: "Habitat ubique prope vias, hominibus valde incommode in Cochinchina & China, quia vestibus adhaerens taediose avellitur, cum ex cuti nequeat."

Chrysopogon trivialis Arn. & Nees, Nov. Actorum Acad. Caes. Leop.-Carol. Nat. Cur., Suppl. 19(1): 171. 1843, nom. superfl. & illeg. for *Chrysopogon aciculatus* (Retz.) Trin.

Rhaphis javanica Nees ex Steud., Syn. Pl. Glumac. 1: 396. 1854, nom. invalid. cited as synonym of *Andropogon javanicus*.

Andropogon acicularis Roem. & Schult., Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 812. 1817, orth. var.

Distribution. Andaman and Nicobar Islands, Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Chhattisgarh, Delhi, Goa, Gujarat, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Odisha, Sikkim, Tamil Nadu, Tripura, Uttar Pradesh, Uttarakhand, West Bengal [Afghanistan, Bangladesh, Bhutan, China, Myanmar, Nepal, Pakistan, Sri Lanka].

Habit. Perennial.

883. *Chrysopogon asper* Heyne ex Blatter & McCann, Sci. Monogr. Imp. Council Agric. Res. India (Bombay Grasses) 5: 68. 1935

Andropogon asper Heyne ex Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 189. 1896, non (Thunb.) Kunth, 1829, nom. later hom. illeg. Type: India: Madras, Pulicat Hills; *Heyne s.n.*

Distribution. Andhra Pradesh, Karnataka, Kerala, Maharashtra, Tamil Nadu.

Habit. Perennial.

884. *Chrysopogon aucheri* (Boiss.) Stapf, Bull. Misc. Inform. Kew 1907: 211. 1907

Andropogon aucheri Boiss., Diagn. Pl. Orient. ser. 1, 1(5): 77. 1844. Type: “Hab. in desertis Persiae australis; Aucher no. 5465.”

Chrysopogon ciliolatus (Nees ex Steud.) Boiss. var. *aucheri* Boiss. (Boiss), Fl. Orient. (Boissier) 5: 458. 1884

Distribution. Gujarat, Rajasthan [Afghanistan, Pakistan].

Habit. Perennial.

885. *Chrysopogon castaneus* Veldkamp & Salunkhe, Rheede 10(1): 59. 2000

Type. India: Maharashtra, Sindhudurg District, Amboli-Choukul, alt. 2320 ft.; September 18, 1993; *S.R. Yadav* 8678 (L).

Distribution. Maharashtra.

Habit. Perennial.

886. *Chrysopogon copei* N. Mohanan & Ravi, Rheede 11(2): 87. 2001.

Type. India: Tamil Nadu, Tirunelveli district, Shengelteri, 700 m, 22 December 2000, *Mohanan* 45125 (holotype: TBGT; isotype: CAL, CALI, K, MH).

Distribution. Tamil Nadu.

Habit. Perennial.

887. *Chrysopogon fulvus* (Spreng.) Chiov., Fl. Somalia 1: 327. 1929

Pollinia fulva Spreng., Pl. Min. Cogn. Pug. 2: 10. 1815. Type: “Habitat in Bengalia”; *Roxburgh s.n.*

Andropogon sprengelii Kunth, Révis. Gramin. 1: 166. 1829

Chrysopogon montanus Trin. in Spreng., Neue Entdeck. Pflanzenk. 2: 93. 1821. Type: “Hab. in India Orientali”; *Koenig s.n. ex herb. Banks in herb. Jacquin* (W).

Chrysopogon monticola Haines, Indian Forester 40(10): 495. 1914, nom. superfl. & illegit.

Andropogon montanus J. Koenig ex Trin. in Spreng., Neue Entdeck. Pflanzenk. 2: 93. 1821, pro. syn., nom. nud.

Andropogon monticola Schult. & Schult. f., Mant. 3 (Schultes & Schultes f.) Add. 1665. 1827, nom. superfl. for *Chrysopogon montanus*

Distribution. Andhra Pradesh, Bihar, Chhattisgarh, Daman and Diu, Delhi, Goa, Gujarat, Jammu and Kashmir, Himachal Pradesh, Karnataka, Kerala, Madhya Pradesh,

Maharashtra, Odisha, Rajasthan, Tamil Nadu, Uttar Pradesh, Uttarakhand [China, Myanmar, Sri Lanka].

Habit. Perennial.

888. *Chrysopogon gryllus* (L.) Trin., Fund. Agrost. (Trinius) 188. 1820 ssp. *gryllus*

Andropogon gryllus L., Cent. Pl. II 33. 1756. Type: "Habitat in Rhaetia, Helvetia, Veronae, Sauvages, Seguiet." Lectotype: Seguiet, Herb. Linn. No. 1211.2 (LINN). LT designated by Meikle in Fl. Cyprus 2: 1863. 1985.

Holcus gryllus (L.) R. Br., Prodr. Fl. Nov. Holland. 1: 199. 1810

Pollinia gryllus (L.) Spreng., Pl. Min. Cogn. Pug. 2: 10. 1815

Andropogon royleanus Steud., Syn. Pl. Glumac. 1: 397. 1854. Type: Nepal.

Chrysopogon glabratus Trin., Mém. Acad. Imp. Sci. St.-Pétersbourg, Sér. 6, Sci. Math. 2(4): 318. 1832. Type: "V. spp. Nepal." Nepal; *Wallich s.n.*

Andropogon glabratus (Trin.) Steud., Nomencl. Bot., ed. 2 (Steudel) 1: 91. 1840

Apluda gryllus sensu (L.) C. Presl, Cyper. Gramin. Sicul. 55. 1820, non P. Beauv., 1812

Distribution. Assam, Himachal Pradesh, Karnataka, Meghalaya, Nagaland, Jammu and Kashmir, Rajasthan, Sikkim, Uttar Pradesh [Nepal].

Habit. Perennial.

889. *Chrysopogon gryllus* L. ssp. *echinulatus* (Steud.) Cope, Kew Bull. 35(3): 701. 1980

Andropogon echinulatus Steud., Syn. Pl. Glumac. 1: 397. 1854. Type: Nepal; *Royle* 226.

Chrysopogon echinulata (Steud.) Will. Watson in Atkins., Bot. Himalayan Distr. N. W. Prov. 10: 392. 1882

Andropogon gryllus L. ssp. *echinulatus* (Steud.) Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 552. 1889

Chrysopogon aciculatus Trin. var. *echinulatus* (Steud.) S.K. Jain, Phytotaxonomy 3: 136. 2004

Rhaphis echinulata Nees, Ill. Bot. Himal. Mts. 1: 417. 1840, nom invalid., nom. nud. Type: Northwest India; *Royle* 226 (LIV).

Distribution. Assam, Sikkim, Tamil Nadu, Uttar Pradesh [Nepal].

Habit. Perennial.

890. *Chrysopogon hackelii* (Hook. f.) C.E.C. Fisch., Fl. Madras 3(10): 1739. 1934

Andropogon hackelii Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 194. 1896. Type: India: Travancore, Nilghiri Hills; *Wight 1030* (K). Gondaloo Ghat, alt. 4500 ft.; *Lawson s.n.* Numer. List [Wallich] no. 8783

Distribution. Andhra Pradesh, Karnataka, Kerala, Maharashtra, Rajasthan, Tamil Nadu, Uttar Pradesh.

Habit. Perennial.

891. *Chrysopogon hamiltonii* (Hook. f.) Haines, Bot. Bihar Orissa 5: 1036. 1924

Andropogon hamiltonii Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 190. 1896 (as “hamiltoni”). Type: India: Behar, Monghir; *Buchanan-Hamilton s.n.*

Distribution. Andhra Pradesh, Bihar, Gujarat, Karnataka, Maharashtra, Odisha, Tamil Nadu, West Bengal.

Habit. Perennial.

892. *Chrysopogon lancearius* (Hook. f.) Haines, Bot. Bihar Orissa 5: 1036. 1924

Andropogon lancearius Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 190. 1896. Syn-types: India: Sikkim Himalaya, Punkabaree; *Kurz s.n.* Chota Nagpore; Ramghur, Ghat, 1750 ft.; *C.B. Clarke s.n.*

Distribution. Andhra Pradesh, Bihar, Jharkhand, Maharashtra, Odisha, Sikkim, West Bengal.

Habit. Perennial.

893. *Chrysopogon lawsonii* (Hook. f.) Veldkamp, Austrobaileya 5(3): 515. 1999

Vetiveria lawsonii (Hook. f.) Blatt. & McCann, J. Bombay Nat. Hist. Soc. 32: 409. 1928 (as “lawsoni”)

Andropogon lawsonii Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 187. 1896. Type: India: Mysore, Bandypore, in moist ground, alt. 3000 ft.; *Lawson s.n.*

Distribution. Andhra Pradesh, Karnataka, Madhya Pradesh, Maharashtra, Rajasthan, Tamil Nadu.

Habit. Not recorded.

894. *Chrysopogon narayanii* Sunil, Ratheesh, & Sivadasan, Phytotaxa 307 (4): 249. 2017.

Type. India: Kerala, Kannur district, Madayippara, 40 m, 5 December 2014, *Sunil, R. Narayanam* 7187 (holotype: CAL; isotype: MH).

Distribution. Kerala.

Habit. Perennial.

895. *Chrysopogon nodulibarbis* (Hochst ex Steud.) Henrard, Blumea 4(3): 534. 1941

Andropogon nodulibarbis Hochst ex Steud., Syn. Pl. Glumac. 1: 396. 1854. Type: India: Tamil Nadu, Nilgiri Mountains; *R.F. Hohencaker* 934

Andropogon zeylanicus Steud., Syn. Pl. Glumac. 1: 397. 1854. Type: Sri Lanka.

Chrysopogon zeylanicus (Steud.) Thwaites, Enum. Pl. Zeyl. (Thwaites) 366. 1864

Andropogon peninsulae Steud., Syn. Pl. Glumac. 1: 396. 1854. Type: India; Numer. List [Wallich] no. 8785 as “*Chrysopogon*”

Distribution. Karnataka, Kerala, Maharashtra, Tamil Nadu [Sri Lanka].

Habit. Perennial.

896. *Chrysopogon orientalis* (Desv.) A. Camus, Fl. Indo-Chine [P.H. Lecomte et al.] 7: 332. 1922

Rhaphis orientalis Desv., Opusc. Sci. Phys. Nat. 69. 1831. Type: “India orientalis.” India; *Klein* 392 (B-W-18636 (sheet 4)).

Andropogon aristulatus Steud., Syn. Pl. Glumac. 1: 372. 1854. Type: “Ins. Borbon”

Andropogon breviaristatus Steud., Syn. Pl. Glumac. 1: 396. 1854. Type: India: Tamil Nadu, Coimbatore, Nilgiri Hills, prope Kaity; October 18; *R. F. Hohenacker* 1285 (P).

Andropogon wightianus Steud., Syn. Pl. Glumac. 1: 395. 1854. Lectotype: India; *Wight* 1676 (P). LT designated by Veldkamp, *Austrobaileya* 5(3): 518. 1999.

Chrysopogon wightianus (Steud.) Thwaites, Enum. Pl. Zeyl. (Thwaites). 366. 1864

Distribution. Andhra Pradesh, Assam, Bihar, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Tamil Nadu [China, Myanmar, Sri Lanka].

Habit. Perennial.

897. *Chrysopogon polyphyllus* (Hack. ex Hook. f.) Blatt. & McCann, J. Bombay Nat. Hist. Soc. 32: 416. 1928

Andropogon polyphyllus Hack. ex Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 194–195. 1896. Type: India: Madhya Pradesh, Khandua, Chanda and Jubbulpore Districts, by the Nerbudda and Indravati rivers; *J.C. Duthie* 8491 (K).

Distribution. Andhra Pradesh, Bihar, Dadra and Nagar Haveli, Goa, Gujarat, Karnataka, Madhya Pradesh, Maharashtra, Tamil Nadu, Uttar Pradesh [also in Malaysia, North America].

Habit. Perennial.

898. *Chrysopogon pseudozeylanicus* K.G. Bhat & Nagendran, Reinwardtia 10(2): 128, f. 2. 1985

Type. India: Karnataka State, South Kanara District, Charmadi ghat, about 15 km from Kotigehar on the way to Dharmasthala; November, 1977; *K.G. Bhat* 550A (CAL).

Distribution. Karnataka.

Habit. Perennial.

899. *Chrysopogon purushothamanii* Ravi, N. Mohanan & Kiran Raj, Rheedeia 10(2): 94, f. 2. 2000

Type. India: Kerala State, Pathanamthitta District. Kozhanchery Taluk, Kokkathode, Kattathipara, alt. 500 ft.; November 25, 2000; *Ravi* 44811 (TBGT).

Distribution. Kerala.

Habit. Perennial.

900. *Chrysopogon serrulatus* Trin., Mém. Acad. Imp. Sci. St.-Petersbourg, Sér. 6, Sci. Math. 2(3): 318. 1832

Chrysopogon fulvus (Spreng.) Chiov. var. *serrulatus* (Trin.) R.R. Stewart, Brittonia 5(4): 466. 1945

Chrysopogon montanus Trin. var. *serrulatus* (Trin.) Stapf, Fl. Trop. Afr. [Oliver et al.] 9: 160. 1917, in obs.

Andropogon coeruleus Steud., Syn. Pl. Glumac. 1: 395. 1854. Type: India; *Royle Herb. no. 254, 255*

Andropogon ciliolatus Steud., Syn. Pl. Glumac. 1: 396. 1854. Type: India; *Royle Herb. no. 318*. India; Numer. List [Wallich] no. 8788

Chrysopogon ciliolatus (Steud.) Boiss., Fl. Orient. (Boissier) 5: 458. 1884

Andropogon monticola Schultes var. *trinii* (Steud.) Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 193. 1896

Andropogon trinii Steud., Syn. Pl. Glumac. 1: 395. 1854. Type: Nepal

Andropogon trinii Steud. var. *increscens* Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 558–559. 1889. Syntypes: India: Coutrallum; *Wight 1030*. Sri Lanka; *Thwaites 2954*

Chrysopogon wightianus (Steud.) Thwaites var. *leucanthus* Thwaites, Enum. Pl. Zeyl. (Thwaites). 366. 1864. Type: Sri Lanka: Doombera District; *Thwaites Ceylon Plant 3248*

Type. Nepal; 1821; *Wallich* (Numer. List [Wallich] no. 8791).

Distribution. Andhra Pradesh, Jammu and Kashmir, Karnataka, Madhya Pradesh, Maharashtra, Punjab, Uttar Pradesh, Uttarakhand [Afghanistan, Myanmar, Nepal, Pakistan, Sri Lanka].

Habit. Perennial.

901. *Chrysopogon tadulingamii* Sreek., V.J. Nair & N.C. Nair, J. Bombay Nat. Hist. Soc. 80: 198. f. 15. 1983

Type. India: Kerala, Cannanore District, Periyar, alt. 200 ft.; October 18, 1981; *P.V. Sreekumar 71758* (CAL).

Distribution. Andhra Pradesh, Kerala.

Habit. Perennial.

902. *Chrysopogon velutinus* (Hook. f.) Bor, Grasses Burma, Ceylon, India & Pakistan 119. 1960

Andropogon velutinus Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 194. 1896. Type: India: Mysore, Chuddapah; *Wight 2314*

Chrysopogon velutinus Arn. ex Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 194. 1896, nom. nud. pro. syn.

Distribution. Andhra Pradesh, Karnataka, Kerala, Tamil Nadu.

Habit. Annual.

903. *Chrysopogon verticillatus* (Roxb.) Trin. ex Steud., Nomencl. Bot., ed. 2 (Steudel) 1: 360. 1840

Andropogon verticillatus Roxb., Fl. Ind. (Carey and Wallich ed.) 1: 267. 1820. Type: India: "A native of Mountains, flowering about the end of the wet season."

Distribution. Andhra Pradesh, Chhattisgarh, Karnataka, Kerala, Madhya Pradesh, Odisha, Tamil Nadu.

Habit. Perennial.

904. *Chrysopogon zizanioides* (L.) Roberty, Bull. Inst. Franç. Afrique Noire 22: 106. 1960

Phalaris zizanioides L., Mant. Pl. Altera 183. 1771. Type: “Habitat in India orientali. Koenig.” Lectotype: Herb. Linn. No. 78.12 (LINN). LT designated by van der Zon in Wageningen Agric. Univ. Pap. 92-1: 409. 1992.

Vetiveria zizanioides (L.) Nash, Fl. S.E. U.S. [Small]. 67, 1326. 1903

Anatherum zizanioides (L.) Hitchc. & Chase, Contr. U.S. Natl. Herb. 18: 285. 1917

Andropogon zizanioides (L.) Urban, Symb. Antill. (Urban). 4: 79. 1903

Holcus zizanioides (L.) Kuntze ex Stuck., Anales Mus. Nac. Buenos Aires 11: 48. 1904

Sorghum zizanioides (L.) Kuntze, Revis. Gen. Pl. 2: 791. 1891

Andropogon festucoides J. Presl in C. Presl, Reliq. Haenk. 1: 340. 1830. Type: “Hab. in Luzonia.” Philippines: Luzon Island; *T. Haenke s.n.* (PR).

Andropogon muricatus Retz., Observ. Bot. (Retzius) 3: 43. 1783 (as “muricatum”). Type: “Dedit Honoratiss Koenig.” India; *Koenig s.n.*

Anatherum muricatum (Retz.) P. Beauv., Ess. Agrostogr. 150. t. 22. f. 10. 1812

Vetiveria muricata (Retz.) Griseb., Fl. Brit. W.I. [Grisebach] 560. 1864

Vetiveria arundinacea Griseb., Fl. Brit. W.I. [Grisebach] 559. 1864. Type: “P.B. Agrost. t. 22. f. 10 anal.”

Vetiveria odorata Virey, J. Pharm. 13: 501. 1827. Type: “East Indies. Ref. is made to Bull. Soc. Philom. 1822: 44.”

Vetiveria odoratissima Lem.-Lisanc., Bull. Soc. Philom. Paris 43. 1822. Type: Sri Lanka: “à Bourbon à l’île de France où elle a été apportée, sous l’ intendance de M. Poivre’, M. Poivre”(P?). (vide Tropicos)

Andropogon squarrosus sensu Hook. f. in Trimen, Handb. Fl. Ceylon 5: 233. 1900, non L. f., 1781

Agrostis verticillata Lam., Encycl. (Lamarck) 1: 59. 1783, non Vill., 1779. Type: “Cette plante croit dans l’Inde, & m’a été communiqué par M. Sonnerat.”

Distribution. Andhra Pradesh, Assam, Bihar, Chhattisgarh, Delhi, Goa, Gujarat, Jharkhand, Jammu and Kashmir, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Punjab, Rajasthan, Uttar Pradesh, Uttarakhand, Tamil Nadu, West Bengal [China, Nepal, Pakistan, Sri Lanka].

Habit. Perennial.

Remarks. Widely cultivated.

***Cleistachne* Benth., Hooker's Icon. Pl. 14: 60, t. 1379. 1882**

Type. *Cleistachne sorghoides* Benth.

905. *Cleistachne sorghoides* Benth., Hooker's Icon. Pl. 14: 60, t. 1379. 1882

Cleistachne stocksii Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 162–163. 1896.

Type: India: Malabar, Bababoodan Hills; *J.E. Stocks s.n.*, *Ritchie s.n.*

Type. Mozambique: Shubanga, on the Zambesi; *J. Kirk s.n.* (K).

Distribution. Bihar, Gujarat, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Tamil Nadu [also in Saudi Arabia, Africa].

Habit. Annual.

Remarks. Records for Bihar and Gujarat fide Naithani (1990).

***Coix* L., Sp. Pl. 2: 972. 1753**

Lectotype. *Coix lacryma-jobi* L. LT designated by G. V. Nash, N. Amer. Fl. 17: 82. 1909; affirmed by Hitchcock, Amer. J. Bot. 5: 250. 1918.

906. *Coix aquatica* Roxb., Fl. Ind. (Roxburgh) 3: 571–572. 1832

Type. India: Lower parts of Bengal, generally found floating on lakes; *Roxburgh s.n.*

Distribution. Andhra Pradesh, Bihar, Chhattisgarh, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Rajasthan, Tamil Nadu, Uttar Pradesh, West Bengal [Bangladesh, Bhutan, China, Myanmar, Sri Lanka].

Habit. Annual.

907. *Coix lacryma-jobi* L., Sp. Pl. 2: 972. 1753

Lithagrostis lacryma-jobi (L.) Gaertn., Fruct. Sem. Pl. 1: 7. t. 1. f. 10. 1788

Coix agrestis Lour., Fl. Cochinch. 2: 551. 1790. Type: "Habitat agrestis in locis humidis."

Coix arundinacea Lam., Encycl. (Lamarck) 3(2): 422. 1792. Type: "Cette plante croit dans les pays chauds de l'Amerique."

Coix exaltata J. Jacq., Ecl. Gram. Rar. 60. t. 40. 1820. Type: China

Coix lacryma L., Syst. Nat., ed 10. 2: 1261. 1759, nom. superfl. & illegit. for *C. lacryma-jobi*.

Coix ovata Stokes, Bot. Mat. Med. 4: 343. 1812, nom. superfl. & illeg.

Coix pendula Salisb., Prodr. Stirp. Chap. Allerton 28. 1796, nom. superfl. & illeg.

Type. “Habitat in Indiis.” Lectotype: *Herb. Linn. No. 1098.1* (LINN). LT designated by Clayton & Renvoize in Polhill (ed.), *Fl. Trop. E. Africa, Gramineae* 3: 857. 1982.

Distribution. Andaman and Nicobar Islands, Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Chhattisgarh, Daman and Diu, Dadra and Nagar Haveli, Goa, Gujarat, Himachal Pradesh, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Nagaland, Odisha, Rajasthan, Sikkim, Tamil Nadu, Tripura, Uttar Pradesh, Uttarakhand, West Bengal [Bhutan, China, Myanmar, Nepal, Sri Lanka].

Habit. Annual.

908. *Coix lacryma-jobi* L. var. *stenocarpa* Oliv., Hooker’s Icon. Pl. 18: t. 1764. 1888

Coix stenocarpa (Oliv.) Balansa, J. Bot. (Morot) 4(4): 77–78. 1890

Coix tubulosa Hack. ex Warbg. in Engl., Bot. Jahrb. Syst. 13(2): 260. 1890. Type: “Sattelberg bei Finschhafen.” Papua New Guinea; *E.F. Warburg* 20946 (B).

Syntypes. Burma; *G. Watt* s.n. India: Mergui; *Griffith* s.n.

Distribution. Andhra Pradesh, Arunachal Pradesh, Assam, Karnataka, Manipur, Meghalaya, Mizoram, Nagaland, Rajasthan, Tripura, Uttarakhand [China, Myanmar].

Habit. Annual.

909. *Coix lacryma-jobi* L. var. *ma-yuen* (Rom. Caill.) Stapf ex Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 100. 1896

Coix ma-yuen Rom. Caill., Bull. Soc. Natl. Acclim. France ser. 2, 8: 442. 1881. Type: India: Sikkim, up to 5000 ft.; *Watt*?

Distribution. Assam, Sikkim [Bhutan, China, Myanmar].

Habit. Annual.

910. *Coix puellarum* Balansa, J. Bot. (Morot) 4(4): 77. 1890

Coix lacryma-jobi L. var. *puellarum* (Balansa) A. Camus, Fl. Indo-Chine [P.H. Lecomte et al.] 7: 220. 1922

Type. Vietnam: Tonkin; *Balansa* s.n.

Distribution. Arunachal Pradesh [China, Myanmar].

Habit. Annual.

***Cymbopogon* Spreng., Pl. Min. Cogn. Pug. 2: 14. 1815**

Lectotype. *Cymbopogon schoenanthus* (L.) Spreng. (*Andropogon schoenanthus* L.). LT designated by N.L. Britton & P. Wilson in Bot. Porto Rico 1: 27. 1923.

911. *Cymbopogon caesius* (Nees ex Hook. & Arn.) Stapf, Bull. Misc. Inform. Kew 1906: 360–361. 1906

Andropogon caesius Nees ex Hook. & Arn., Bot. Beechey Voy. 6: 244. 1838. Syntypes: India; *Wight 1700b* (K). “N. ab E. in Wight Cat. n. 1700”. [China]: “Hab. a et b, in vicinia urbis Macao, et in insulis adjectis; *Millett*; *G.H. Vachell*, n. 41. a.”

Andropogon schoenanthus L. var. *caesius* (Nees ex Hook. & Arn.) Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 610. 1889

Andropogon schoenanthus L. var. *gracillimus* Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 205. 1896. Type: Numer. List [Wallich] no. 8796

Distribution. Andhra Pradesh, Bihar, Gujarat, Karnataka, Kerala, Odisha, Tamil Nadu, Uttar Pradesh, Uttarakhand [China, Pakistan, Sri Lanka].

Habit. Perennial.

912. *Cymbopogon citratus* (DC.) Stapf, Bull. Misc. Inform. Kew 1906: 322, 357. 1906

Andropogon citratus DC., Cat. Pl. Horti Monsp. 78. 1813 (as “citratum”). Type: “Cult. at Montpellier, France, from seed collected in Asia” Rumphius, Herb. Amboin. 5. p. 181. under *Schoenanthum amboinicum*, Specimen from Lambert’s Garden (BM).

Distribution. Andhra Pradesh, Goa, Gujarat, Karnataka, Kerala, Maharashtra, Rajasthan, Tamil Nadu, Uttar Pradesh [China].

Habit. Perennial.

Remarks. Widely cultivated.

913. *Cymbopogon coloratus* (Hook. f.) Stapf, Bull. Misc. Inform. Kew 1906: 321, 356. 1906

Andropogon nardus L. var. *coloratus* Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 206–207. 1896. Syntypes: India; *Heyne s.n.*, *Wight s.n.*

Andropogon nardus L. ssp. *glomeratus* Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 604. 1889. Type: Peninsular India Orientalis; *Wight 3087*

Distribution. Andhra Pradesh, Karnataka, Tamil Nadu [China, Myanmar].

Habit. Perennial.

914. *Cymbopogon commutatus* (Steud.) Stapf, Bull. Misc. Inform. Kew 1907: 211. 1907 var. *commutatus*

Andropogon commutatus Steud., Syn. Pl. Glumac. 1: 387. 1854. Type: Ethiopia; Schimper 685 (P).

Cymbopogon parkeri Stapf, Bull. Misc. Inform. Kew 1929(1): 10–11. 1929. Type: India: United Provinces, very common in the Ettawah afforestation area; August, 1923; R.S. Pearson s.n.

Andropogon laniger sensu Duthie, Fodder Grasses North. India 35. t. 23. 1888, non Desf., 1799

Distribution. Goa, Gujarat, Haryana, Jammu and Kashmir, Rajasthan, Uttar Pradesh [Pakistan].

Habit. Perennial.

Remarks. Records for India, except for Goa and Jammu and Kashmir, all fide Naithani (1990).

915. *Cymbopogon commutatus* (Steud.) Stapf var. *jammuensis* (Gupta) Naithani, Fl. Pl. India, Nepal & Bhutan 483. 1990

Cymbopogon parkeri Stapf var. *jammuensis* Gupta, Proc. Ind. Acad. Sci. Sec. B, 71:96. 1970

Distribution. Jammu and Kashmir.

Habit. Perennial.

916. *Cymbopogon distans* (Nees) Wats., Bot. Himalayan Distr. N. W. Prov. 392. 1882

Andropogon distans Nees, Syn. Pl. Glumac. (Steudel) 1: 387. 1854. Lectotype: Nepal; Royle 236 (LIV). LT designated by Soenarko, Reiwardtia 9: 356. 1977.

Cymbopogon distans (Nees) Wats. var. *mundensis* Gupta, Proc. Ind. Acad. Sci. Sec. B, 71:97. 1970

Distribution. Jammu and Kashmir, Uttarakhand [China, Nepal, Pakistan].

Habit. Perennial.

Remarks. Record for Jammu and Kashmir fide Naithani (1990).

917. *Cymbopogon flexuosus* (Nees) Will. Watson in Atkins., Bot. Himalayan Distr. N.W. Prov. 392. 1982 var. *flexuosus*

Andropogon flexuosus Nees, Syn. Pl. Glumac. (Steudel) 1: 388. 1854. Type: India; *Wight 1704* (P). "A. nardus Klein herb. Ind. or."

Andropogon nardus L. ssp. *flexuosus* (Nees) Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 603. 1889. Type: Peninsular India; *Wight 171*

Cymbopogon travancorensis Bor, J. Bombay Nat. Hist. Soc. 52: 174–176. f. 24. 1954. Type: India: Courtallum, Tinnevely; November 11, 1908; *Bourne 5309* (K).

Distribution. Andhra Pradesh, Bihar, Karnataka, Kerala, Maharashtra, Odisha, Sikkim, Tamil Nadu, West Bengal [China, Myanmar, Nepal].

Habit. Perennial.

918. *Cymbopogon flexuosus* (Nees) Will. Watson var. *coimbatore* B.K. Gupta, Proc. Indian Acad. Sci., B. 71: 94. 1970

Type. India; *B.K. Gupta 32* (DD).

Distribution. Jammu and Kashmir, Sikkim, Tamil Nadu, West Bengal.

Habit. Perennial.

Remarks. Record for Tamil Nadu fide Naithani (1990).

919. *Cymbopogon flexuosus* (Nees) Will. Watson var. *sikkimensis* Bor, J. Bombay Nat. Hist. Soc. 52: 162. 1954

Syntypes. India: Sikkim, Kynanooka, Terai; November, 1878; *J.S. Gamble 7363*. Tuckvar; September 19, 1874; *Treutler 792*. Rungpo, alt.; November 3, 1909; *I.H. Burkill 34063*. West Bengal, Darjeeling District, Badamtam, Ranjit; November 1, 1909; *I.H. Burkill 34012*.

Distribution. Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal.

Habit. Perennial.

Remarks. Record for Sikkim fide Naithani (1990).

920. *Cymbopogon gidarba* (Buch.- Ham. ex Steud.) Haines, Bot. Bihar Orissa 5: 1048. 1924 var. *gidarba*

Andropogon gidarba Buch.- Ham. ex Steud., Syn. Pl. Glumac. 1: 387. 1854. Type: India; Numer. List [Wallich] no. 8797

Distribution. Andhra Pradesh, Bihar, Gujarat, Jharkhand, Karnataka, Maharashtra, Odisha, Tamil Nadu, West Bengal [China].

Habit. Perennial.

921. *Cymbopogon jwarancusa* (Jones) Schult., Mant. 2 (Schultes) 458. 1824 ssp. *jwarancusa* (“iwarancusa”)

Andropogon jwarancusa Jones, Asiat. Res. 4: 109. 1795. Type: India: Lucnow; *Blane s.n.* *Andropogon himalayensis* Gand., Bull. Soc. Bot. France 46: 421. 1899, non Steud., 1854. Type: India: Jihri Garhwal, Tous Valley, alt. 3000–4000 ft.

Distribution. Andhra Pradesh, Bihar, Jammu and Kashmir, Rajasthan, Tamil Nadu, Uttar Pradesh, Uttarakhand [Afghanistan, Bhutan, China, Nepal, Pakistan, Sri Lanka].

Habit. Perennial.

922. *Cymbopogon jwarancusa* (Jones) Schult. var. *assamensis* Gupta, Proc. Ind. Acad. Sci. Sec. B, 71:95. 1970.

Distribution. Assam.

Habit. Perennial.

923. *Cymbopogon jwarancusa* (Jones) Schult. ssp. *olivieri* (Boiss.) Soenarko, Reinwardtia 9(3): 307. 1977

Andropogon olivieri Boiss., Diagn. Pl. Orient. ser. 1, 1(5): 76. 1844. Type: Iraq: Baghdad (“Mesopotamia”); 1834; *Archer Eloy* 2955 (G).

Cymbopogon olivieri (Boiss.) Bor, Notes Roy. Bot. Gard. Edinburgh 25(1): 62. 1963

Andropogon iwarancusa Jones ssp. *laniger* (Desf.) Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 203. 1896

Andropogon laniger Desf., Fl. Atlant. 2: 379. 1800. Type: “Habitat in montibus prope Cafsam” (as “lanigerum”)

Cymbopogon ladakhensis B.K. Gupta, Proc. Indian Acad. Sci., B. 71: 10. 1970. Type: India: Kashmir; *B.K. Gupta* 37 (DD).

Cymbopogon schoenanthus sensu Bor, Grasses Burma, Ceylon, India and Pakistan 131. 1960, non (L.) Spreng., 1815

Andropogon schoenanthus sensu Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 204. 1896, non L., 1753

Distribution. Arunachal Pradesh, Himachal Pradesh, Jammu and Kashmir, Rajasthan, Tamil Nadu, Uttar Pradesh [Afghanistan, China, Nepal, Pakistan].

Habit. Perennial.

Remarks. Records for Arunachal Pradesh, Himachal Pradesh, Jammu and Kashmir, Uttar Pradesh and Nepal fide Naithani (1990).

924. *Cymbopogon khasianus* (Hack.) Stapf ex Bor, Indian Forest Rec., Bot. n.s. 1(3): 92. 1938

Andropogon nardus L. ssp. *khasianus* Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 603. 1889. Type: [Bangladesh] India: Silhet; Numer. List [Wallich] no. 8794-H; Griffith 6764, 6765 (K).

Andropogon khasianus Munro ex Duthie, Fodder Grasses North. India 88. 1888, nom. nud.

Distribution. Assam, Manipur, Meghalaya, Nagaland [Bhutan, China, Myanmar].

Habit. Perennial.

925. *Cymbopogon martini* (Roxb.) Will. Watson in Atkins., Bot. Himalayan Distr. N. W. Prov. 392. 1882

Andropogon martini Roxb., Fl. Ind. (Carey and Wallich ed.) 1: 280–281. 1820. Type: “A native of the high lands of Balla-ghat, General Martin collected the seeds while there with the army, during the last war with Tippoo Sultan, and has reared abundance of it at Lucknow.”

Andropogon schoenanthus L. var. *martini* (Roxb.) Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 204. 1896

Cymbopogon martini (Roxb.) Will. Watson var. *sofia* B.K. Gupta, Proc. Indian Acad. Sci., B 71: 97. 1970

Andropogon pachnodes Trin., Mém. Acad. Imp. Sci. St.-Pétersbourg, Sér. 6, Sci. Math. 2(3): 284. 1832. Type: Nepal; Wallich s.n.

Cymbopogon pachnodes (Trin.) Will. Watson in Atkins., Bot. Himalayan Distr. N.W. Prov. 392. 1882

Cymbopogon motia B.K. Gupta, Proc. Indian Acad. Sci., B 71: 92. 1970. Type: India; B.K. Gupta 25 (DD).

Cymbopogon martinianus Schult., Mant. 2 (Schultes) 459. 1824, nom. superfl. & illegit. for *Andropogon martini* Roxb.

Distribution. Andhra Pradesh, Assam, Bihar, Chhattisgarh, Goa, Gujarat, Himachal Pradesh, Karnataka, Kerala, Maharashtra, Odisha, Rajasthan, Tamil Nadu [China, Myanmar, Nepal, Pakistan]. Native to India; also cultivated.

Habit. Perennial.

926. *Cymbopogon microstachys* (Hook. f.) Soenarko, Reinwardtia 9(3): 364. 1977

Andropogon nardus L. var. *microstachys* Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 207. 1896. Lectotype: India: Garo Hills; *Mann s.n.* (vide Soenarko, Reinwardtia 9(3): 364. 1977)

Cymbopogon flexuosus (Nees ex Steud.) Will. Watson var. *microstachys* (Hook. f.) Bor, J. Bombay Nat. Hist. Soc. 52: 162. 1954

Distribution. Assam, Meghalaya [China, Myanmar].

Habit. Perennial.

927. *Cymbopogon microthecus* (Hook. f.) A. Camus, Rev. Bot. Appl. Agric. Colon. 1: 284. 1921

Andropogon microtheca Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 208. 1896. Type: Nepal: East Nepal, hot Valleys, alt. 3000–4000 ft.; *J.D. Hooker s.n.*

Distribution. Bihar, Sikkim [Nepal].

Habit. Perennial.

928. *Cymbopogon nardus* (L.) Rendle, Cat. Afr. Pl. 2(1): 155. 1899 var. *nardus*

Andropogon nardus L., Sp. Pl. 2: 1046. 1753. Type: “Habitat in India.” Lectotype: *Herb. Hermann 2: 66, No. 45* (BM-000594628). LT designated by Clayton & Renvoize in Polhill (ed.), Fl. Trop. E. Africa, Gramineae 3: 764. 1982.

Andropogon ampliflorus Steud., Syn. Pl. Glumac. 1: 388. 1854. Type: Indonesia: Java; *Zollinger 849* (P).

Andropogon thwaitesii Hook. f., Handb. Fl. Ceylon 5: 243. 1900. Type: Sri Lanka: Nuwara Eliya; August, 1864; *Thwaites Ceylon Plant 3784* (K).

Cymbopogon thwaitesii (Hook. f.) Willis, Revis. Cat. Fl. Pl. Ceylon 110. 1911

Andropogon distans Thwaites, Enum. Pl. Zeyl. (Thwaites) 367. 1864, non Nees ex Steud., 1854

Distribution. Andhra Pradesh, Assam, Bihar, Maharashtra, Karnataka, Kerala, Tamil Nadu, Tripura [Bhutan, Myanmar, Sri Lanka].

Habit. Perennial.

929. *Cymbopogon nardus* (L.) Rendle var. *confertiflorus* (Steud.) Stapf ex Bor, J. Bombay Nat. Hist. Soc. 51: 905. 1953

Andropogon confertiflorus Steud., Syn. Pl. Glumac. 1: 385. 1854. Type: India: Tamil Nadu, Nilagiri Mountains; 1851; *R.F. Hohenacker* 932 (K).

Cymbopogon confertiflorus (Steud.) Stapf, Bull. Misc. Inform. Kew 1906: 318, 355. 1906

Andropogon nardus L. var. *nilagiricus* Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 206. 1896. Type: India: Tamil Nadu, Nilagiri Mountains; 1851; *R.F. Hohenacker* 932 (S-G402).

Andropogon nardus L. var. *luridus* Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 206. 1896. Type: India: Tamil Nadu, Nilghiri Hills; *Schmid s.n.* Sri Lanka; *Gardner s.n.*, *Maxwell s.n.*

Andropogon nardus L. ssp. *nilagiricus* Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 604. 1889. Type: cited many syntypes

Distribution. Andhra Pradesh, Karnataka, Tamil Nadu [Sri Lanka].

Habit. Perennial.

930. *Cymbopogon osmastonii* R. Parker, Repert. Spec. Nov. Regni Veg. 31: 126. 1932

Type. India: Assam, Kheri District; *Osmaston* 1430 (K).

Distribution. Assam, Uttar Pradesh.

Habit. Perennial.

Remarks. Record for Uttar Pradesh fide Naithani (1990).

931. *Cymbopogon pendulus* (Nees) Will. Watson in Atkins., Bot. Himalayan Distr. N. W. Prov. 392. 1882

Andropogon pendulus Nees, Syn. Pl. Glumac. (Steudel) 1: 388. 1854. Type: Nepal

Distribution. Assam [Bhutan, China, Nepal].

Habit. Perennial.

932. *Cymbopogon polyneuros* (Steud.) Stapf, Bull. Misc. Inform. Kew 1906: 345, 361. 1906

Andropogon polyneuros Steud., Syn. Pl. Glumac. 1: 385. 1854. Type: India: Tamil Nadu, Coimbatore, Nilgiri Hills; *R.F. Hohenacker* 933 (L).

Andropogon schoenanthus L. var. *versicolor* (Steud.) Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 610. 1889

Andropogon versicolor Steud., Syn. Pl. Glumac. 1: 388. 1854. Type: East Indies.

Cymbopogon versicolor (Steud.) J.F. Watson in Atkins., Bot. Himalayan Distr. N. W. Prov. 392. 1882

Distribution. Karnataka, Tamil Nadu [Myanmar, Sri Lanka].

Habit. Perennial.

933. *Cymbopogon pospischilii* (K. Schum.) C.E. Hubb., Kew Bull. 1949: 175. 1949

Andropogon pospischilii K. Schum. in Engl., Bot. Jahrb. Syst. 24: 328. 1897. Type: Mozambique: Muani; February; *Pospischil s.n.* (B).

Andropogon nardus L. var. *stracheyi* Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 207. 1896. Syntypes: India: Kumaon; *R. Strechey & J.E. Winterbottom s.n.* as *A. martini*. Kalenath, alt. 6000 ft.; *R. Strechey & J.E. Winterbottom s.n.* Pangi; *Stolizka s.n.*

Cymbopogon stracheyi (Hook. f.) Raizada & S.K. Jain, Indian Forester 80(1): 44. 1954

Distribution. Himachal Pradesh, Uttarakhand [Nepal, Pakistan].

Habit. Perennial.

934. *Cymbopogon ramnagarensis* Gupta, Proc. Ind. Acad. Sci. Sec. B, 71:86. 1970

Type. B. K. Gupta 30; India (Dehra Dun).

Distribution. Jammu and Kashmir.

Habit. Perennial.

Remarks. Soenarko (1977) suggests that this species is a hybrid and should be known as *C. x stracheyi* (Hook.f.) Raizada & S.K. Jain.

935. *Cymbopogon traninhensis* (A. Camus) Soenarko, Reinwardtia 9(3): 347. 1977

Cymbopogon confertiflorus (Steud.) Stapf var. *traninhensis* A. Camus, Bull. Mus. Natl. Hist. Nat. 26: 565. 1920. Type: Laos: Traninh “Spontane sur les hauts plateaux de Tra ninh”; *Mieville s.n.* (P).

Cymbopogon khasianus (Hack.) Stapf ex Bor var. *nagensis* Bor, J. Bombay Nat. Hist. Soc. 52: 169. 1954. Type: India: Assam, Naga Hills, Shiloi Jopi, alt. 8000 ft.; November, 1935; *N.L. Bor 10* (K).

Distribution. Assam, Nagaland [China, Myanmar].

Habit. Perennial.

936. *Cymbopogon travancorensis* Bor, J. Bombay Nat. Hist. Soc. 52: 174. 1954

Type. India: Travancore: Courtallam, Tennevelly District; November 11, 1908; *Bourne* 5309 (K).

Distribution. Kerala, Tamil Nadu.

Habit. Perennial.

937. *Cymbopogon winterianus* Jowitt, Ann. Roy. Bot. Gard. (Peradeniya) 4: 188. 1908

Type. Sri Lanka: Pillagoda Valley, Buddegama S. P.; February 11, 1908; *A. W. Winter* s.n. (K).

Distribution. Maharashtra [China, Sri Lanka]. Native to India, but also cultivated.

Habit. Perennial.

***Dichanthium* Willemet, Ann. Bot. (Usteri) 18: 11. 1796**

Type. *Dichanthium nodosum* Willemet, nom. illeg. (*Andropogon annulatus* Forssk. (as “annulatum”), *Dichanthium annulatum* (Forssk.) Stapf.

938. *Dichanthium annulatum* (Forssk.) Stapf, Fl. Trop. Afr. [Oliver et al.] 9: 178. 1917

Andropogon annulatus Forssk., Fl. Aegypt.-Arab. 173. 1775 (as “annulatum”). Type: “Passim ad ripas Nili.” Egypt: Rashid, banks of Nile River; June, 1762; *Forsskal* 127 (C).

Lepeocercis annulata (Forssk.) Nees, Fl. Afr. Austral. Ill. 98. 1841

Andropogon garipensis Steud., Syn. Pl. Glumac. 1: 379. 1854. Type: “Ad fluv. Garip. Afr. austr.” India; *Buchanan-Hamilton* s.n. (Numer. List [Wallich] no. 8810C)

Andropogon obtusus Nees ex Hook. & Arn., Bot. Beechey Voy. 6: 243. 1838 (as “obtusum”). Type: Not given.

Andropogon scandens Roxb., Fl. Ind. (Carey and Wallich ed.) 1: 262. 1820. Type: India: “Grows commonly in hedges.”

Andropogon comosus sensu Link, Hort. Berol. [Link] 1: 239. 1827, non Spreng., 1819

Distribution. Andhra Pradesh, Assam, Bihar, Chhattisgarh, Dadra and Nagar Haveli, Delhi, Goa, Gujarat, Jammu and Kashmir, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Nagaland, Odisha, Rajasthan, Tamil Nadu, Uttar Pradesh, Uttarakhand, West Bengal [Bhutan, China, Myanmar, Nepal, Pakistan, Sri Lanka].

Habit. Perennial.

939. *Dichanthium aristatum* (Poir.) C.E. Hubb., Bull. Misc. Inform. Kew 1939: 654. 1939

Andropogon aristatus Poir., Encycl. (Lamarck) Suppl. 1: 585. 1811 (as “aristatum”).

Type: “Cette plante a été observée a l’île de-France par Commerson. (Herb. Desfont.)”

Andropogon mollicomus Kunth, Révis. Gramin. 1: 365 t. 96. 1830. Type: “Crescit in insulis Francia et Timor.”

Lepeocercis mollicoma (Kunth) Nees, Edinburgh New Philos. J. 18: 185. 1835

Andropogon caricosus L. var. *mollicomus* (Kunth) Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 569. 1889

Diplasanthum lanosum Desv., Opusc. Sci. Phys. Nat. 67. t. 5. f. 1. 1831. Type: “Habitat in India orientali.”

Andropogon nodosus Nash, N. Amer. Fl. 17(2): 122. 1912, nom. superfl. & illeg.?

Dichanthium nodosum Willemet, Ann. Bot. (Usteri). 18: 11. 1796, nom. superfl. & illeg. for *Andropogon annulatum* Forssk.

Distribution. Andhra Pradesh, Chhattisgarh, Karnataka, Madhya Pradesh, Maharashtra, Tamil Nadu [China].

Habit. Perennial.

940. *Dichanthium armatum* (Hook. f.) Blatt. & McCann, J. Bombay Nat. Hist. Soc. 32(2): 357. 1927 (as “Dicanthio armato”)

Andropogon armatus Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 197. 1896. Type:

India: Concan; *J.E. Stocks s.n.*

Distribution. Maharashtra.

Habit. Annual.

941. *Dichanthium caricosum* (L.) A. Camus, Bull. Mus. Natl. Hist. Nat. 27: 549. 1921, nom. cons.

Andropogon caricosus L., Sp. Pl., ed. 2. 2: 1480. 1763 (as “caricosum”), nom. cons.

Type: “Habitat in India.”

Andropogon filiformis Pers., Syn. Pl. (Persoon) 1: 103. 1805 (as “filiforme”)

Heteropogon concinnus Thwaites, Enum. Pl. Zeyl. (Thwaites). 368. 1864. Type: Sri

Lanka: Badulla District, Bibili, at no great elevation; *Thwaites Ceylon Plant* 3556

Andropogon serratus Retz., Observ. Bot. (Retzius) 5: 21. 1788 (“1789”), (as “serratum”)

non Thunb., 1784. Type: “Crescit ad oras fluminis in Bengalia, Cel Koenig.”

Distribution. Andaman and Nicobar Islands, Andhra Pradesh, Assam, Bihar, Chhattisgarh, Gujarat, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Odisha, Punjab, Rajasthan, Tamil Nadu, Uttar Pradesh, West Bengal [China, Myanmar, Sri Lanka].

Habit. Perennial.

942. *Dichanthium concanense* (Hook. f.) S.K. Jain & Deshp., Bull. Bot. Surv. India 20(1–4): 134. 1979 (“1978”) (as “concanensis”)

Andropogon concanensis Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 174. 1896.

Type: India: Maharashtra, Bombay; *Woodrow* 28 (K).

Bothriochloa concanensis (Hook. f.) Henrard, Blumea 3(3): 457. 1940

Amphilophis concanensis (Hook. f.) Blatt. & McCann, J. Bombay Nat. Hist. Soc. 32: 422. 1928

Distribution. Karnataka, Maharashtra.

Habit. Perennial.

943. *Dichanthium foulkesii* (Hook. f.) S.K. Jain & Deshp., Bull. Bot. Surv. India 20(1–4): 134. 1979 (“1978”)

Andropogon foulkesii Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 174. 1896. Syn-types: India: Nilghiri Hills; *Wight s.n.* Kaity; *Foulkes s.n.*(K).

Bothriochloa foulkesii (Hook. f.) Henrard, Blumea 3(3): 457. 1940

Amphilophis foulkesii (Hook. f.) C.E.C. Fisch., Fl. Madras 3(10): 1732. 1934

Distribution. Karnataka, Kerala, Tamil Nadu.

Habit. Perennial.

944. *Dichanthium jainii* (Deshp. & Hemadri) Deshp., Bull. Bot. Surv. India 21(1–4): 198. 1981 (“1979”)

Bothriochloa jainii Deshp. & Hemadri, Indian Forester 97(10): 593. 1971. Type: India: Maharashtra, Poona District, Junnar, Dhak Khilla; October 29, 1964; *K. Hemadri* 104241A (CAL).

Distribution. Maharashtra.

Habit. Perennial.

945. *Dichanthium mccannii* Blatt. & McCann, J. Bombay Nat. Hist. Soc. 32: 357. 1927

Type. India: Bombay Presidency, Satara District, Panchgani; October, 1925; *C. McCann s.n.* (BLAT).

Distribution. Maharashtra.

Habit. Annual.

946. *Dichanthium oliganthum* (Hochst. ex Steud.) Cope, Kew Bull. 35(3): 703. 1980

Andropogon oliganthus Hochst. ex Steud., Syn. Pl. Glumac. 1: 368. 1854. Type: India: Tamil Nadu, Nilgiri Mountains; *Metz, ed R.F. Hohenacker Herb. Ind. no. 1288* (K). *Heteropogon oliganthus* (Hochst. ex Steud.) Blatt. & McCann, J. Bombay Nat. Hist. Soc. 32: 623. 1928

Indochloa oligantha (Hochst. ex Steud.) Bor, Kew Bull. 1954: 79. 1954

Distribution. Karnataka, Kerala, Maharashtra, Tamil Nadu.

Habit. Annual.

947. *Dichanthium pallidum* (Hook. f.) Stapf ex C.E.C. Fisch., Fl. Madras 3(10): 1741. 1934

Apocopis pallida Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 143. 1896. Type: India: Tamil Nadu, Nilghiri Hills; *Foulkes s.n.*

Distribution. Tamil Nadu.

Habit. Perennial.

948. *Dichanthium panchganiense* Blatt. & McCann, J. Bombay Nat. Hist. Soc. 32: 357. t. 1. 1927

Type. India: Bombay Presidency, Satara District, Panchgani; November, 1925; *C. McCann s.n.* (BLAT).

Distribution. Maharashtra.

Habit. Annual.

949. *Dichanthium paranjpyeanum* (Bhide) Clayton, Kew Bull. 32(3): 579. 1978

Andropogon paranjpyeanus Bhide, J. Proc. Asiat. Soc. Bengal, n.s. 7: 514. 1911. Type: India: Bombay, Castle Rock; *Bhide s.n.* (K, isotype).

Eremopogon paranjpyeanus (Bhide) Blatt. & McCann, J. Bombay Nat. Hist. Soc. 32: 427. 1928 (as “paranjpyeanum”)

Schizachyrium paranjpyeanum (Bhide) Raizada & Jain, Proc. Indian Sci. Congr. Assoc. 3: 130. 1953

Distribution. Karnataka, Maharashtra.

Habit. Annual.

Remarks. Record for Karnataka fide Naithani (1990).

950. *Dichanthium tuberculatum* (Hack.) Cope, Kew Bull. 35(3): 703. 1980

Andropogon tuberculatus Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 404. 1889.

Type: India: Assirgar; *O. Kuntze s.n.* (W).

Eremopogon tuberculatus (Hack.) A. Camus, Ann. Soc. Linn. Lyon ser. 2, 68: 208. 1921

Distribution. Andhra Pradesh, Madhya Pradesh, Maharashtra.

Habit. Perennial.

***Diectomis* Kunth, Mém. Mus. Hist. Nat. 2: 69. 1815, nom. cons.**

Type. *Diectomis fastigiata* (Sw.) P. Beauv. (*Andropogon fastigiatus* Sw. (as “fastigiatum”).

951. *Diectomis fastigiata* (Sw.) P. Beauv., Ess. Agrostogr. 132, 150, 160. 1812

Andropogon fastigiatus Sw., Prodr. (Swartz) 26. 1788 (as “fastigiatum”). Type: Jamaica; Swartz *s.n.*

Pollinia fastigiata (Sw.) Spreng., Pl. Min. Cogn. Pug. 2: 13. 1815

Andropogon diatherus Steud., Syn. Pl. Glumac. 1: 378–379. 1854. Type: Oaxaca

Andropogon hochstetteri Steud., Syn. Pl. Glumac. 1: 384. 1854. Type: Abyssinia; Schimper 2013 (P).

Heteropogon hochstetteri (Steud.) Andersson ex Schweinf., Beitr. Fl. Aethiop. 306. 1867

Distribution. Andhra Pradesh, Bihar, Chhattisgarh, Jharkhand, Madhya Pradesh, Rajasthan, West Bengal [Myanmar].

Habit. Perennial.

***Dimeria* R. Br., Prodr. Fl. Nov. Holland. 204. 1810**

Type. *Dimeria acinaciformis* R. Br.

952. *Dimeria agasthyamalayana* Kiran Raj & Ravi, *Rheedea* 11(2): 93. 2001

Type. India: Kerala, Thiruvananthapuram District, Agasthyamala Hills, Bonaccord, alt. 2500 ft.; February 1, 2000; *Kiran Raj* 41939 (TBGT).

Distribution. Kerala, Tamil Nadu.

Habit. Annual.

953. *Dimeria andamanica* Gosavi, M.Y. Kamble, Chandore & S.R. Yadav, *Phytotaxa* 270(4): 296. 2016.

Type. India, Andaman and Nicobar Islands, South Andaman, Chidiya Tapu, 28 m, 12 December 2014, *M. Y. Kamble* 32185 (holotype: CAL, isotype: PBL, SUK).

Distribution. Andaman Islands.

Habit. Annual.

954. *Dimeria aristata* (Hack.) Senaratna, *Grasses Ceylon* (Perad. Man., No. 8) 163. 1956

Dimeria lehmannii Hack. var. *aristata* Hack., *Monogr. Phan.* [A. DC. & C. DC.] 6: 83. 1889

Distribution. Orissa, Tamil Nadu, West Bengal [Sri Lanka].

Habit. Perennial.

955. *Dimeria avenacea* (Retz.) C.E.C. Fisch., *Bull. Misc. Inform. Kew* 1932: 72. 1932

Anthoxanthum avenaceum Retz., *Observ. Bot.* (Retzius) 3: 8. 1783 (as “auenaceum”).

Type: “E. Tranquebaria misit cel. Koenig.”

Dimeria avenacea (Retz.) C.E.C. Fisch. var. *elator* (Hook. f.) Bor, *Kew Bull.* 1952: 562. 1952

Dimeria elator (Hook. f.) Senaratna, *Grasses of Ceylon* 162. 1956

Dimeria pusilla Thwaites, *Enum. Pl. Zeyl.* (Thwaites). 369. 1864. Type: Sri Lanka: Kokotodua; *Gardner Ceylon Plant* 954.

Dimeria pusilla Thwaites var. *elator* Hook. f., *Fl. Brit. India* (J.D. Hooker). 7(21): 103. 1896. Type: Sri Lanka: Trincomalee; *Glennie Ceylon Plant* 957.

Dimeria acutipes Bor, *Kew Bull.* 1952: 560. 1952. Type: India: Madras State; September, 1898; *Bourne* 35 (K).

Distribution. Andhra Pradesh, Kerala, Odisha, Tamil Nadu [Myanmar, Sri Lanka].

Habit. Annual.

956. *Dimeria balakrishnaniana* K. Ravik., Sreek. & Lakshm., Kew Bull. 45(3): 573. 1990

Type. India: Tamil Nadu, Madurai District, High Wavy's Mountains, Nursery Valley, 4500 ft.; January 22, 1988; *Lakshmanan* 87543 (CAL).

Distribution. Tamil Nadu.

Habit. Annual.

957. *Dimeria bialata* C.E.C. Fisch., Bull. Misc. Inform. Kew 1933: 351. 1933

Type. India: Kanara District, Siradi; November; *A. Meebold* 10548.

Distribution. Karnataka, Kerala, Tamil Nadu.

Habit. Annual.

Remarks. Records for Karnataka and Tamil Nadu fide Naithani (1990).

958. *Dimeria blatteri* Bor, Kew Bull. 1949: 70. 1949

Type. India: Bombay, Khandala, Echo Point; October, 1918; *Blatter & McCann* s.n. (BLAT).

Distribution. Maharashtra.

Habit. Annual.

959. *Dimeria chelariensis* Ravi, Rheede 5(1): 37. f. 1. 1995

Type. India: Kerala, Malappuram District, Chelari; November 28, 1992; *N. Ravi* 3606 (TBGT).

Distribution. Kerala.

Habit. Perennial.

960. *Dimeria connivens* Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 689. (add.) 1889

Type. India orientalis, loco speciali collectoreque ignoto; *T. Anderson* s.n.

Distribution. Bihar, Chhattisgarh, Jharkhand, Kerala, Madhya Pradesh, Maharashtra, Odisha, Rajasthan.

Habit. Annual.

961. *Dimeria copeana* Sreek., V.J. Nair & N.C. Nair, J. Bombay Nat. Hist. Soc. 78: 577. f. 9. 1981

Type. India: Kerala, Alleppey District, Thrikkunna Puzha; March 13, 1980; *P.V. Sree-kumar* 66736 (CAL).

Distribution. Kerala.

Habit. Perennial.

962. *Dimeria copei* Ravi, Blumea 41(1): 251. 1996

Type. India: Kerala, Alappuzha District, Kalavoor; December 3, 1992; *Ravi* 3655 (TGBT).

Distribution. Kerala.

Habit. Annual.

963. *Dimeria deccanensis* Bor, Kew Bull. 1952: 578. 1952

Type. India: Madras State, Pilicode, S. Kanara; November 11, 1917; *15340 ex Madras Herb.* (K).

Distribution. Karnataka, Kerala, Maharashtra, Tamil Nadu.

Habit. Annual.

Remarks. Records for Kerala and Tamil Nadu fide Naithani (1990).

964. *Dimeria eradii* Ravi, Rheedeia 5(1): 39. f. 2. 1995

Type. India: Kerala, Malppuram Distrriect, Tenhipa'am; November 29, 1992; *N. Ravi* 3641 (TBGT).

Distribution. Kerala.

Habit. Annual.

965. *Dimeria falcata* Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 85. 1889

Distribution. North East India [China, Myanmar].

Habit. Perennial.

Remarks. Distribution in India not reported.

966. *Dimeria fasciculata* P. Kumari & R. Lakra, Int. J. Adv. Res. 6(7): 484–490. 2018.

Type. India: Andaman Islands, Middle Andaman, Panchvati, 08 February 2017, *Reshma Lakra* 32835 (holotype: CAL; isotype: PBL).

Distribution. Andaman Islands.

Habit. Annual.

967. *Dimeria fischeri* Bor, Kew Bull. 1952: 564. 1952

Type. India: Madras State, Mahendragiri; *C.E.C. Fischer* 133 (K).

Distribution. Andhra Pradesh, Kerala, Tamil Nadu.

Habit. Annual.

Remarks. Record for Tamil Nadu fide Naithani (1990).

968. *Dimeria fuscescens* Trin., Mém. Acad. Imp. Sci. St.-Pétersbourg, Sér. 6, Sci. Math. 2: 335. 1832

Type. Nepal; Numer. List [Wallich] no. 8841.

Distribution. Assam, Kerala, Meghalaya, Maharashtra, Nagaland, Tamil Nadu [Myanmar, Nepal, Sri Lanka].

Habit. Perennial.

969. *Dimeria gracilis* Nees, Syn. Pl. Glumac. (Steudel) 1: 413. 1855

Dimeria laxiuscula Thwaites & Trimen, J. Bot. 23: 272. 1885. Type: Sri Lanka: Pasdun Korle; September, 1864; *Thwaites Ceylon Plant* 3863 in *Herb. Perad.*; Kulutara; December, 1882

Dimeria leptorhachis Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 89. 1889. Type: Sri Lanka; *Thwaites* 3261

Dimeria pilosissima (J. Presl) Thwaites, Enum. Pl. Zeyl. (Thwaites). 369. 1864, non Trin., 1832, isonym

Type. Sri Lanka; *Lindley* s.n.

Distribution. Karnataka, Maharashtra, Tamil Nadu [Sri Lanka].

Habit. Perennial.

970. *Dimeria hohenackeri* Hochst. ex Miq., Nieuwe Verh. Eerste Kl. Kon. Ned. Inst. Wetensch. Amsterdam ser. 3, 4: 35. 1851

Psilostachys hohenackeri Steud., Syn. Pl. Glumac. 1: 413. 1855. Type: India; *R.F. Hohenacker* 231

Arthraxon hohenackeri Hochst. ex Steud., Syn. Pl. Glumac. 1: 413. 1855, pro syn., nom. inval.

Type. India: Manglore; *Metz* 231*b*.

Distribution. Karnataka, Kerala, Maharashtra.

Habit. Annual.

971. *Dimeria idukkiensis* Ravi & N. Anilkumar, Rheede 2(2): 104. 1992

Type. India: Kerala, Idukki District, Peermedu, Kuttikkanam; October 19, 1991; *Anil Kumar* 3190 (MH).

Distribution. Kerala.

Habit. Annual.

972. *Dimeria jainii* Sreek., V.J. Nair & N.C. Nair, Curr. Sci. 52(6): 259. f. 1. 1983

Type. India: Kerala, Calicut District, Pokkunnamalai, Nanminda, alt. 2700 ft.; October 29, 1981; *P.V. Sreekumar* 71814 (CAL).

Distribution. Kerala.

Habit. Annual.

973. *Dimeria jayachandranii* Arisdason & P. Daniel, Kew Bull. 64(2): 345, f. 1. 2009.

Type. India: Tamil Nadu, Coimbatore District, Anamalais hills, Karian Shola, 800–1000 m, 5 December 2002, *Arisdason* 115578 (holotype: CAL; isotype: MH).

Distribution. Tamil Nadu.

Habit. Annual.

974. *Dimeria josephii* Ravi & N. Mohanan, Rheede 11(2): 90–92. f. 2. 2001

Type. India: Kerala, Palakkad District, Nenmara, 250 ft.; November 24, 1998; *Ravi* 39542 (TBGT).

Distribution. Kerala.

Habit. Annual.

975. *Dimeria kalavoorensis* Ravi, Blumea 41(1): 251. 1996

Type. India: Kerala, Alappuzha District, Kalavoor; December 3, 1992; *Ravi* 3654 (TGBT).

Distribution. Kerala.

Habit. Annual.

976. *Dimeria kaleri* P. Biju, Josekutty & Augustine, Bangladesh J. Pl. Taxon. 25(1): 14. 2018.

Type. India, Kerala, Kasaragod district, Karakkode lateritic plateau, 75 m, 12 December, *Biju & Jomy* 1166 (holotype: CAL; isotype: MH).

Distribution. Kerala.

Habit. Not mentioned.

977. *Dimeria kalliyadense* Biju, Josekutty & Augustine, Int. J. Adv. Res. 5(11): 705–711. 2017.

Type. India: Kerala, Kannur district, Kalliyad lateritic plateau, 190 m, 14 September 2013, *Biju & Jomy* 2468 (holotype: CAL, isotype: MH).

Distribution. Kerala.

Habit. Annual.

978. *Dimeria kanjirapallilana* Jacob, J. Bombay Nat. Hist. Soc. 47: 48. 1947 (as “kanijirapallilana”)

Type. South India, Travancore, Peermade, alt. 3200 ft.; December, 1941; *K.C. Jacob s.n.* (MH-86320).

Distribution. Andhra Pradesh, Kerala, Tamil Nadu.

Habit. Annual.

Remarks. Record for Kerala fide Naithani (1990).

979. *Dimeria keralae* N.C. Nair, Sreek. & V.J. Nair, J. Bombay Nat. Hist. Soc. 80: 626. f. 1–16. 1984

Type. India: Kerala, Cannanore District, Paramba, Bandudka, alt. 500 ft.; October 16, 1981; *P.V. Sreekumar* 71717 (CAL).

Distribution. Kerala.

Habit. Annual.

980. *Dimeria kollimalayana* M. Mohanan & A.V.N. Rao, J. Bombay Nat. Hist. Soc. 80: 617. f. 1–10. 1984

Type. India: Tamil Nadu, Salem District, Kollimalai, alt. 3900; February 19, 1982; *M. Mohanan* 56802 (CAL).

Distribution. Karnataka, Kerala, Odisha, Tamil Nadu.

Habit. Annual.

981. *Dimeria kurzii* Hook. f., Fl. Brit. India 7: 103. 1896

Type. Myanmar: Pegu, 27 December 1870, *S. Kurz* 2741 (K).

Distribution. Kerala, Nagaland.

Habit. Annual.

982. *Dimeria lawsonii* (Hook. f.) C.E.C. Fisch., Fl. Madras 3(10): 1713. 1934

Dimeria pusilla Thwaites var. *lawsonii* Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 103. 1896. Type: India: Malabar, Wynaad; *Lawson s.n.*

Distribution. Karnataka, Kerala, Tamil Nadu.

Habit. Annual.

983. *Dimeria lehmannii* (Nees) Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 82. 1889 (as “lehmanni”)

Pterygostachyum lehmannii Nees, Syn. Pl. Glumac. (Steudel) 1: 413. 1855 (as “lehmanni”). Type: India

Dimeria lehmannii (Nees) Hack. var. *mutica* Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 83. 1889. Type: Sri Lanka; *Thwaites Ceylon Plant* 955

Dimeria alata Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 105. 1896. Type: Sri Lanka; 1864; *Thwaites Ceylon Plant* 955 (K).

Distribution. Andhra Pradesh, Tamil Nadu [Sri Lanka].

Habit. Perennial.

984. *Dimeria mahendragiriensis* Ravi, H.O. Saxena & Brahmam, Rheedeia 5(2): 142. 1995

Type. India: Odisha, Gajapati District, Mahendragiri hill, 1350 m, 22 November 1979, *H. O. Saxena & M. Brahmam* 3880 (holotype: RRLB).

Distribution. Odisha.

Habit. Perennial

985. *Dimeria mooneyi* Raizada ex Mooney, Suppl. Bot. Bihar Orissa 263. 1950

Dimeria borii Sreek., V.J. Nair & N.C. Nair, J. Econ. Taxon. Bot. 3(2): 657. f. 1. 1982.

Type: India: Kerala, Calicut District, Kanjeerakkadavu, near Kakkayam, alt. 3000 ft.; November 26, 1981; *P.V. Sreekumar* 71855 (CAL).

Type. India: Orissa, Sambalpur District, close to Sonabera Village, alt. 2300 ft.; *Moon-ey* 3652 & 3657 (K, DD).

Distribution. Karnataka, Kerala, Odisha, Tamil Nadu.

Habit. Annual or perennial.

Remarks. Records for Karnataka and Tamil Nadu fide Naithani (1990).

986. *Dimeria namboodiriana* Ravi & N. Mohanan, Rheedeia 7(1): 1. 1997.

Type. India: Kerala, Pathanamthitta District, Ponnambalamedu, 5 January 1996, *Ravi* 24050 (holotype: TBGT, iso: K, KFRI, L, MH).

Distribution. Kerala.

Habit. Perennial.

987. *Dimeria orissae* Bor, Kew Bull. 1952: 579. 1952

Type. India: Orissa, Pipokhuri, Keonjhar State, alt. 3200 ft.; October 1, 1946; *H.F. Mooney* 2758 (K).

Distribution. Odisha, Tamil Nadu.

Habit. Annual.

988. *Dimeria ornithopoda* Trin., Fund. Agrost. (Trinius) 167. t. 14. 1820 var. *ornithopoda*

Andropogon roxburghianus Schult., Mant. 2 (Schultes) 451. 1824. Type: India: Calcutta; *Roxburgh* s.n.

Andropogon stipiformis Steud., Syn. Pl. Glumac. 1(4–5): 377. 1854. Japon. ex Hrbo. Mus. Lug. Batav.

Dimeria stipiformis Miq., Prolus. Fl. Japon. 176. 1866 (as “*stipaeformis*”)

Dimeria filiformis Hochst. ex Miq., Nieuwe Verh. Eerste Kl. Kon. Ned. Inst. Wetensch. Amsterdam ser. 3, 4: 35. 1851, nom. superfl. for *Andropogon roxburghianus* Schult.

Psilostachys filiformis Dalzell in Dalzell & A. Gibson, Bombay Fl. 305. 1861 nom. superfl. for *Andropogon roxburghianus* Schult.

Andropogon filiformis Roxb., Fl. Ind. (Carey & Wallich ed.) 1: 260. 1820, non Pers., 1805

Type. India orientali.

Distribution. Andhra Pradesh, Bihar, Chhattisgarh, Goa, Gujarat, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Meghalaya, Odisha, Rajasthan, Tamil Nadu, West Bengal [China, Myanmar, Nepal].

Habit. Annual.

989. *Dimeria ornithopoda* Trin. var. *gracillima* Bor, Kew Bull. 1952: 576. 1952

Syntypes. India: Bihar, Parasnath, alt. 4000 ft.; October 1, 1873; *C.B. Clarke 21084B*. Ibidem, alt. 4500 ft.; October 1, 1833; *C.B. Clarke 33719A & C*.

Distribution. Andhra Pradesh, Bihar, Karnataka, Madhya Pradesh, Maharashtra, Tamil Nadu.

Habit. Annual.

990. *Dimeria ornithopoda* Trin. var. *khasiana* Bor, Kew Bull. 1952: 576. 1952

Syntypes. India: Assam, Khasia Hills, Cherra, alt. 4000 ft.; October 6, 1867; *C.B. Clarke 5625*. Ibidem, Mamloo, 4000 ft.; September 24, 1886; *C.B. Clarke 45095A*. Ibidem; *Griffith s.n.*

Distribution. Andhra Pradesh, Assam, Chhattisgarh, Karnataka, Maharashtra, Meghalaya, Tamil Nadu.

Habit. Annual.

Remarks. Records for Karnataka, Maharashtra, and Meghalaya fide Naithani (1990).

991. *Dimeria ornithopoda* Trin. var. *megalantha* Bor, Kew Bull. 1952: 576. 1952

Type. India: Maharashtra, Bombay, Belgaum; May 25, 1914; *Anonymous no. 14*.

Distribution. Andhra Pradesh, Karnataka (Naithani), Madhya Pradesh, Maharashtra, Tamil Nadu.

Habit. Annual.

Remarks. Record for Karnataka fide Naithani (1990).

992. *Dimeria pubescens* Hack., Monogr Phan. 6: 83. 1889

Dimeria ceylanica Bor, Kew Bull. 1952: 562. 1952. Type: Sri Lanka; *Gardner 1008*, *Thwaites 956 p.p.* (K, DD).

Dimeria kurumthotticalana Jacob, J. Bombay Nat. Hist. Soc. 47: 49. 1947. Type: India: Travancore, Peermade, alt. 3200; December, 1941; *K.C. Jacob s.n.* (MH- 86320A).

Dimeria trimenii Hook. f. in Trimen, Handb. Fl. Ceylon 5: 198. 1900. Syntypes: Sri Lanka: Elpiliya Patana; *Pearson s.n.*, Unknown locality; *Trimen s.n.*

Type. C. P. Thwaites 956 ex p., “in insula Ceylon”.

Distribution. Karnataka, Kerala, Odisha, Tamil Nadu [Sri Lanka].

Habit. Perennial.

Remarks. Records for Karnataka, Odisha and Tamil Nadu fide Naithani (1990).

993. *Dimeria raizadae* V.J. Nair, Sreek. & N.C. Nair, Indian J. Forest. 6(2): 163. f. 1–8. 1983

Type. India: Kerala, Calicut District, Pokkunnamalai, near Nanminda, alt. 2700 ft.; October 29, 1981; *P.V. Sreekumar 71812* (CAL).

Distribution. Kerala.

Habit. Annual.

994. *Dimeria raviana* Kiran Raj & Sivad., Phytotaxa 195(2): 193. 2015

Type. India: Kerala, Idukki district, Periyar Tiger Reserve, 950 m, *Jomy s.n.* (holotype: CAL, isotype: KFRI).

Distribution. Kerala.

Habit. Perennial.

995. *Dimeria santapau* M. R. Almeida, J. Bombay Nat. Hist. Soc. 66: 510. f. A–I. 1970

Type. India: North Kanara, Mirjan flats; October, 1919; *Sedgwick & Bell 6875* (BLAT).

Distribution. Karnataka, Maharashtra.

Habit. Annual.

996. *Dimeria sivarajanii* N. Mohanan & Ravi, Rheedeia 6(2): 47. f. 1. 1996

Type. India: Kerala, Pathanamthitta District, Kochu Pampa Hills; January 4, 1996; *Ravi TBG & RI 24041* (TBGT).

Distribution. Kerala.

Habit. Annual.

997. *Dimeria sreenarayanae* Ravi & N. Anilkumar, *Rheedea* 2: 101. 1992 (as “sreenarayanii”)

Type. India: Kerala, Idukki District, Peermudu, Kuttikkanam; December 30, 1991; *Anil Kumar* 3297 (MH).

Distribution. Kerala.

Habit. Annual.

998. *Dimeria stapfiana* C.E. Hubb. ex Pilg., *Nat. Pflanzenfam.*, ed. 2 [Engler & Prantl] 14e: 109. 1940

Woodrowia diandra Stapf, Hooker’s *Icon. Pl.* 25: t. 2447. 1896. Type: India: Poona District, Mawal; *Woodrow s.n.*

Dimeria diandra (Stapf) Stapf ex Bhide, J. *Proc. Asiat. Soc. Bengal* (n.s.) 7(8): 516. 1912 (“1911”), non Griff., 1851

Type. “Zierliche, meist einjährige Graser, Blätter nach oben zu am Halm an Grösse abnehmend.”

Distribution. Goa, Karnataka, Maharashtra.

Habit. Annual.

999. *Dimeria thwaitesii* Hack., *Monogr. Phan.* [A. DC. & C. DC.] 6: 78. 1889

Dimeria pusilla Thwaites var. *pallida* Hook. f., *Fl. Brit. India* (J.D. Hooker). 7(21): 103. 1896. Type: Sri Lanka: Damboul; *Thwaites Ceylon Plant* 957 (p.p.).

Type. Sri Lanka: Damboul; *Thwaites Ceylon Plant* 3965.

Distribution. Kerala, Tamil Nadu [Sri Lanka].

Habit. Annual.

1000. *Dimeria veldkampii* Kiran Raj & Sivad., *Novon* 18(2): 183, f. 1. 2008.

Type. India: Goa, North Goa district, Taleigao, 50 m, 27 October 2002, M. S. Kiran Raj 81073 (holotype: CALI, isotype: MH, MO).

Distribution. Goa.

Habit. Annual.

1001. *Dimeria woodrowii* Stapf, Hooker's Icon. Pl. 24: t. 2312. 1894

Type. India: Rutnagherry District, Bombay, near Goa; *Woodrow s.n.*

Distribution. Goa, Karnataka, Maharashtra.

Habit. Annual.

***Elionurus* Humb. & Bonpl. ex Willd., Sp. Pl., ed. 4 [Willdenow] 4(2): 941. 1806
(as “Elyonurus”), nom. & orth. cons.**

Type. *Elionurus tripsacoides* Humb. & Bonpl. ex Willd.

1002. *Elionurus royleanus* Nees ex A. Rich., Tent. Fl. Abyss. 2: 471. 1850–1851

Type. “Crescit in declivitatibus ad fluvii Tacazze ripam sinistram (Schimper).” Ethiopia: Tacazze; *Schimper* 795 (P?).

Distribution. Bihar, Delhi, Gujarat, Maharashtra, Uttar Pradesh [Pakistan].

Habit. Annual.

***Eremochloa* Buse, Gram. (Buse) 17. 1854**

Type. *Eremochloa horneri* Buse,

1003. *Eremochloa muricata* (Retz.) Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 262. 1889

Aegilops muricata Retz., Observ. Bot. (Retzius) 2: 27. 1781. Type: “Ex India Orientali diu habui pro exaltata, donec illam benevolentia Cl. D. König accepi.” India; *Koenig s.n.* (LD).

Rottboellia muricata (Retz.) Retz., Observ. Bot. (Retzius) 3: 12. 1783

Ischaemum pectinatum Trin., Mém. Acad. Imp. Sci. St.-Pétersbourg, Sér. 6, Sci. Math. 2: 296. 1832. Lectotype: Burma; 1826–1827; Numer. List [Wallich] no. 015 in herb. Trinius 95.3(LE). LT designated by Buitenhuis & Veldkamp in *Blumea* 46(2): 410. 2001.

Andropogon pectinatus (Trin.) Steud., Syn. Pl. Glumac. 1: 369. 1854

Distribution. Andhra Pradesh, Gujarat, Maharashtra, Meghalaya, Odisha, Tamil Nadu [Myanmar, Sri Lanka].

Habit. Perennial.

1004. *Eremochloa zeylanica* Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 263. 1889

Andropogon falcatus Steud., Syn. Pl. Glumac. 1: 369. 1854

Ischaemum falcatum (Steud.) Nees ex Thwaites, Enum. Pl. Zeyl. (Thwaites). 436. 1864

Ischaemum zeylanicum (Hack.) Trimen, Syst. Cat. Fl. Pl. Ceylon 107. 1885. Type: Sri Lanka: Kornegala, Hill slopes, 3000–5000 ft.; September, 1862; *Ceylon Plant Thwaites* 3322

Type. Sri Lanka; *Thwaites* 3322 (K).

Distribution. Andhra Pradesh, Karnataka, Maharashtra [Myanmar, Sri Lanka].

Habit. Perennial.

***Eremopogon* Stapf (1917), Fl. Trop. Afr. [Oliver et al.] 9: 182–183. 1917**

Lectotype. *Eremopogon foveolatus* (Delile) Stapf, Fl. Trop. Afr. [Oliver et al.] 9: 183. 1917 (*Andropogon foveolatus* Delile). LT designated by Maire, Fl. Afrique Nord 1: 275. 1952).

1005. *Eremopogon foveolatus* (Delile) Stapf, Fl. Trop. Afr. [Oliver et al.] 9: 183. 1917

Andropogon foveolatus Delile, Descr. Egypte, Hist. Nat. 2: 16, t. 8, f. 2. 1813, (“1812”) (as “*foveolatum*”). Type: “Fleurit en hiver dans les vallees sablonneuses de l’isthme de Soneys.” Egypt: l’isthme de Soneys; no date; *A.R. Delile s.n.*(P).

Dichanthium foveolatum (Delile) Roberty, Boissiera 9: 170. 1960

Distribution. Andhra Pradesh, Bihar, Delhi, Gujarat, Haryana, Jammu and Kashmir, Karnataka, Madhya Pradesh, Maharashtra, Odisha, Rajasthan, Tamil Nadu, Uttar Pradesh, West Bengal [Pakistan, Sri Lanka].

Habit. Perennial.

***Eriochrysis* P. Beauv., Essai Agrostogr. 8. 1812**

Type. *Eriochrysis cayanensis* P. Beauv.

1006. *Eriochrysis rangacharii* C.E.C. Fisch., Bull. Misc. Inform. Kew 1932: 246. 1932

Type. India: Nilgiri Hills, Pykara; June, 1900; *Sir A. G. & Lady Bourne s.n.* (K).

Distribution. Kerala, Tamil Nadu.

Habit. Perennial.

***Euclasta* Franch., Bull. Soc. Hist. Nat. Autun 8: 335. 1895**

Type. *Euclasta glumaceus* Franch.

1007. *Euclasta clarkei* (Hack.) Cope, Kew Bull. 35(3): 704. 1980

Andropogon clarkei Hack., Oesterr. Bot. Z. 41: 49. 1891. Type: India: Chota Nagpur, Parasnath, alt. 4200 ft., Hazaribagh; October 7, 1883; *C.B. Clarke 33780* (K).

Dichanthium clarkei (Hack.) Haines, Bot. Bihar Orissa 5: 1040. 1924

Indochloa clarkei (Hack.) Bor, Kew Bull. 1954: 76. 1954

Distribution. Bihar, Maharashtra, Rajasthan.

Habit. Annual.

1008. *Euclasta condylotricha* (Hochst. ex Steud.) Stapf, Fl. Trop. Afr. [Oliver et al.] 9: 181. 1917

Andropogon condylotrichus Hochst. ex Steud., Syn. Pl. Glumac. 1: 377. 1854. Type: Ethiopia: Dscheladscheranne; *Schimper 2011*(P).

Andropogon piptatherus Hack., Fl. Bras. (Martius) 2(3): 293. 1883. Type: "Habitat in prov. Goyaz ad Porto Imperial et ad fl. Tocantins inter Porto Imperial et Funil; *Burchell 8780*." Brazil: Goiás; *Burchell 8761-7* (W).

Amphilophis piptatherus (Hack.) Nash, N. Amer. Fl. 17(2): 127. 1912

Sorghum piptatherum (Hack.) Kuntze, Revis. Gen. Pl. 2: 792. 1891

Euclasta glumacea Franch., Bull. Soc. Hist. Nat. Autun 8: 336. t. 8. 1895. Type: Congo Francais: "Comba, entre Londina et Brazzaville; *Thollon 1040*." Congo Francais: "Lope, dans l'Ogooue"; *Thollon 787*

Euclasta graminea sensu T. Durand & H. Durand, Syll. Fl. Congol. 649. 1909 (as "Euclaste"), non Franch, 1895.

Distribution. Madhya Pradesh [also in Africa, North America, South America].

Habit. Annual.

Remarks. Record for Madhya Pradesh fide Naithani (1990). Possibly introduced.

***Eulalia* Kunth, Rév. Gram. 1: 160. 1829**

Type. *Eulalia aurea* (Bory) Kunth (*Andropogon aureus* Bory ("aureum")).

1009. *Eulalia contorta* (Brongn.) Kuntze, Revis. Gen. Pl. 2: 775. 1891

Pogonatherum contortum Brongn., Voy. Monde, Phan. 2(2): 90, t. 17. 1831. Type: “Bourou, dans les îles Moluques.”

Pseudopogonatherum contortum (Brongn.) A. Camus, Fl. Indo-Chine [P.H. Lecomte et al.] 7: 255. 1922

Andropogon asthenostachys Steud., Syn. Pl. Glumac. 1: 381. 1854. Type: Philippine Islands; *H. Cuming* 1101.

Andropogon koretrostachys Trin., Mém. Acad. Imp. Sci. St.-Petersbourg, Sér. 6, Sci. Math. 2: 273. 1832. Type: Philippine Islands: Manila.

Pseudopogonatherum koretrostachys (Trin.) Henrard, Blumea 4(3): 521. 1941

Eulalia koretrostachys (Trin.) Henrard, Blumea 4(3): 521. 1941

Pollinia articulata Trin., Mém. Acad. Imp. Sci. St.-Petersbourg, Sér. 6, Sci. Math. 4:90. 1836. Type: “Inss. Molucc.”

Erianthus articulatus (Trin.) F. Muell., Fragm. (Mueller) 8: 118. 1872–1874

Puliculum articulatum (Trin.) Stapf ex Haines, Bot. Bihar Orissa 5: 1018. 1924 (as “articulata”)

Pollinia articulata Trin. var. *pedicellata* Hack. ex Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 110. 1896. Type: India: Kumaon; *Duthei* s.n.

Eulalia concinna Nees, Syn. Pl. Glumac. (Steudel) 1: 412. 1854. Type: India; Numer. List [Wallich] no. 8814

Pollinia collina Balansa, J. Bot. (Morot) 4(4): 81. 1890. Type: Vietnam: Valleys of Tu-Phap; *Balansa* 1771

Pseudopogonatherum collinum (Balansa) A. Camus, Fl. Indo-Chine [P.H. Lecomte et al.] 7: 256. 1922

Pollinia setifolia Nees, Hooker’s J. Bot. Kew Gard. Misc. 2: 101. 1850. Type: Philippines Island; *H. Cuming* 1101

Pseudopogonatherum setifolium (Nees) E.G. Camus & A. Camus, Fl. Indo-Chine [P.H. Lecomte et al.] 7: 256. 1922

Distribution. Andhra Pradesh, Bihar, Chhattisgarh, Karnataka, Madhya Pradesh, Meghalaya, Nagaland, Sikkim, Tamil Nadu, Uttar Pradesh, Uttarakhand, West Bengal [Bhutan, China, Myanmar, Nepal].

Habit. Annual.

1010. *Eulalia fastigiata* (Nees) Haines, Bot. Bihar Orissa 5: 1014. 1924

Saccharum fastigiatum Nees, Syn. Pl. Glumac. (Steudel) 1: 409. 1855. Type: India; Numer. List [Wallich] no. 8847

Erianthus fastigiatus (Nees) Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 125. 1896

Distribution. Assam, Karnataka, Maharashtra, Meghalaya, Sikkim, West Bengal.

Habit. Perennial.

1011. *Eulalia fimbriata* (Hack.) Kuntze, Revis. Gen. Pl. 2: 775. 1891

Pollinia fimbriata Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 164. 1889. Type: India: Malabar & Concan; *J.E. Stocks s.n.*

Distribution. Daman and Diu, Dadra and Nagar Haveli, Goa, Himachal Pradesh, Karnataka, Maharashtra, Rajasthan [China].

Habit. Annual.

1012. *Eulalia hirtifolia* (Hack.) Kuntze, Revis. Gen. Pl. 2: 775. 1891 (as “hirtiflora”); A. Camus, Ann. Soc. Linn. Lyon ser. 2, 68: 202. 1921

Pollinia hirtifolia Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 165. 1889. Type: India: Simla; *Hugel 758* (CAL).

Eulalia quadrinervis (Hack.) Kuntze var. *hirtifolia* (Hack.) Sur, J. Econ. Taxon. Bot. 6(1): 185. 1985

Distribution. Chhattisgarh, Himachal Pradesh, Madhya Pradesh, Uttarakhand [China].

Habit. Perennial.

Remarks. Author K. Gandhi notes that “Kuntze cited Hackel as the parenthetical author, but perhaps due to confusion, misspelled Hackel’s epithet *hirtifolia* as “hirtiflora” ... The typographical error is correctable (vide Shenzhen Code Arts. 60.1, 61.4).”

1013. *Eulalia leschenaultiana* (Decne.) Ohwi, Bull. Tokyo Sci. Mus. 18: 2. 1947

Andropogon leschenaultianus Decne., Herb. Timor. Descr. 29. 1835. Type: Timor

Pollinia cumingii Nees, Hooker’s J. Bot. Kew Gard. Misc. 2: 98. 1850. Type: Philippine Islands: Mindoro; *H. Cuming 1538*

Eulalia cumingii (Nees) A. Camus, Fl. Indo-Chine [P.H. Lecomte et al.] 7: 250. 1922

Andropogon aureofulvus Steud., Syn. Pl. Glumac. 1: 373. 1854 (as “aureo-fulvus”). Type: China: *Fortune Herb. 4*. Philippine Islands; *Cuming Herb. no. 1538*

Distribution. Chhattisgarh, Uttar Pradesh, Uttarakhand [China].

Habit. Perennial.

1014. *Eulalia madkotiensis* Kandwal, B.K. Gupta & S.K. Srivast., Kew Bull. 62(3): 519–521. f. 1. 2007

Type. India: Uttaranchal, Pithoragarh District. Madkot, towards Jauljibi; August 2, 2004; *Manish K. Kandwal 3363* (BSD).

Distribution. Uttarakhand.

Habit. Perennial.

1015. *Eulalia manipurensis* Bor, Grasses Burma, Ceylon, India & Pakistan 156. 1960

Type. Burma: Manipur State, Palel, in wet grassland, alt. 2300 ft.; *N.L. Bor 17736* (K).

Distribution. Manipur [Bangladesh, China, Myanmar].

Habit. Perennial.

1016. *Eulalia mollis* (Griseb.) Kuntze, Revis. Gen. Pl. 2: 775. 1891

Erianthus mollis Griseb., Nachr. Königl. Ges. Wiss. Georg-Augusts-Univ. 92. 1868.

Type: Himalaya occidentalis, 5000–6000 ft.; *Thomson Erianthus no. 3*. India: Kumaon, Almora; *R. Strachey s.n.*

Pollinia mollis (Griseb.) Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 161. 1889

Distribution. Himachal Pradesh, Sikkim, Uttar Pradesh, Uttarakhand [Bhutan, China, Nepal].

Habit. Perennial.

1017. *Eulalia pallens* (Hack.) Kuntze, Revis. Gen. Pl. 2: 775. 1891

Pollinia pallens Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 156. 1889. Type: India; *J.D. Hooker Erianthus no. 17* (B).

Distribution. Assam, Meghalaya [China].

Habit. Perennial.

1018. *Eulalia phaeothrix* (Hack.) Kuntze, Revis. Gen. Pl. 2: 775. 1891

Pollinia phaeothrix Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 168. 1889. Type: Sri Lanka: Newara Ellia; *Thwaites 959*. India; *Wight s.n.* Nilgiri Mountains; *Perrottet 1317, 1333*. Kunur; *Gamble s.n.*

Distribution. Andhra Pradesh, Karnataka, Kerala, Meghalaya, Tamil Nadu [China, Sri Lanka].

Habit. Perennial.

1019. *Eulalia quadrinervis* (Hack.) Kuntze, Revis. Gen. Pl. 2: 775. 1891

Pollinia quadrinervis Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 158–159. 1889.

Type: China: Canton, *Sampson s.n.* Macao; *Vachell s.n.* Cap Syng Moon; *Meyen s.n.* Nepal; Numer. List [Wallich] no. 8808. India: Sikkim, Rinchingpong; *Anderson 1365*.

Pseudopogonatherum quadrinerve (Hack.) Ohwi, Bull. Tokyo Sci. Mus. 18: 3. 1947

Pollinia villosa Munro ex Benth., Fl. Hongk. 420. 1861, nom. later hom. & illeg., non Spreng., 1824

Distribution. Andhra Pradesh, Assam, Madhya Pradesh, Manipur, Meghalaya, Nagpur, Sikkim, Tamil Nadu, Uttarakhand [China, Myanmar, Nepal].

Habit. Perennial.

1020. *Eulalia shrirangii* Salunkhe & Potdar, Kew Bull. 59(4): 625–627. f. 1. 2005

Type. India: Maharashtra, Satara District, Kas Plateau, alt. 4200 ft.; *Salunkhe 8170* (CAL).

Distribution. Maharashtra.

Habit. Annual.

1021. *Eulalia speciosa* (Debeaux) Kuntze, Revis. Gen. Pl. 2: 775. 1891 var. *speciosa*

Erianthus speciosus Debeaux, Actes Soc. Linn. Bordeaux 32: 53. 1878. Type: “Les hautes montagnes du Tché-foû, de 1000–1100 metres d’alt. dans les fissures des rochers, 1860”; *Debeaux s.n.*

Pollinia speciosa (Debeaux) Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 159. 1889

Distribution. Meghalaya [China, Myanmar].

Habit. Perennial.

1022. *Eulalia speciosa* (Debeaux) Kuntze var. *velutina* (Hack.) Bor, Grasses Burma, Ceylon, India & Pakistan 157. 1960

Pollinia velutina Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 169. 1889. Type: India:

Khasia, alt. 5000–6000 ft.; *J.D. Hooker & Thomson s.n.*

Eulalia velutina (Hack.) Kuntze, Revis. Gen. Pl. 2: 775. 1891

Distribution. Meghalaya.

Habit. Perennial.

1023. *Eulalia staintonii* Bor, Kew Bull. 1957: 411–412. 1958

Type. Nepal: Kali Gandaki, alt. 9000 ft.; September 18, 1954; *Stainton, Sykes & Williams* 7919 (BM).

Distribution. Maharashtra, Uttar Pradesh [Nepal].

Habit. Perennial.

Remarks. Records for India fide Naithani (1990).

1024. *Eulalia thwaitesii* (Hack.) Kuntze, Revis. Gen. Pl. 2: 775. 1891

Pollinia thwaitesii Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 163. 1889. Type: Sri Lanka: Newara Ellia; *Thwaites* 949.

Distribution. Kerala [Sri Lanka].

Habit. Perennial.

Remarks. Record for Kerala fide Naithani (1990).

1025. *Eulalia trispicata* (Schult.) Henrard, Blumea 3(3): 453. 1940

Andropogon trispicatus Schult., Mant. 2 (Schultes) 452. 1824, replaced synonym *Andropogon tristachyos* Roxb., 1820

Andropogon tristachyos Roxb., Fl. Ind. (Carey and Wallich ed.) 1: 261. 1820, nom. illeg. hom., non Kunth, 1816. Type: India: “found on newly laid down pasture ground in the vicinity of Calcutta.”

Erianthus hexastachyus Hochst., Verh. Nederl. Inst. III 4: 35. 1851. Type: India: “Prope Castellum Mulki in terra Canara detexit Metz.”

Andropogon hexastachyus (Hochst.) Steud., Syn. Pl. Glumac. 1: 380. 1854

Eulalia argentea Brongn., Voy. Monde, Phan. 2(2): 92. 1827. Type: “Amboine et Bourou, dans les Moluques.”

Pollinia argentea (Brongn.) Trin., Mém. Acad. Imp. Sci. Saint-Pétersbourg, Sér. 6, Sci. Math., Seconde Pt. Sci. Nat. 5, 2(1): 90. 1836. Type: “Amboina Molucc.”

Eulalia tristachya Kuntze, Revis. Gen. Pl. 2: 775. 1891

Distribution. Andhra Pradesh, Assam, Bihar, Chhattisgarh, Goa, Gujarat, Himachal Pradesh, Jammu & Kashmir, Karnataka, Kerala, Maharashtra, Meghalaya, Odisha, Rajasthan, Tamil Nadu, Uttarakhand, West Bengal [Bangladesh, Bhutan, China, Myanmar, Nepal, Sri Lanka].

Habit. Perennial.

1026. *Eulalia villosa* (Spreng.) Nees, Fl. Afr. Austral. III. 91. 1841

Pollinia villosa Spreng., Syst. Veg. [Sprengel] 1: 288. 1824 ("1825"). Replaced name.
Andropogon villosus Thunb., Prodr. Pl. Cap. 20. 1794, nom. illeg. hom., non Lam.
 (1779). Type: South Africa: Hab. Bonae Spei Africaes, *Thunberg s.n.*
Eulalia wightii (Hook. f.) Bor, Grasses Burma, Ceylon, India and Pakistan 158. 1960
Pollinia quadrinervis Hack. var. *wightii* Hook. f., Fl. Brit. India (J.D. Hooker). 7(21):
 110. 1896. Type: India: Pulney Mountains; *Wight 3390* (K).

Distribution. Andhra Pradesh, Daman and Diu, Gujarat, Karnataka, Kerala, Maharashtra, Odisha, Tamil Nadu, Uttar Pradesh [Sri Lanka].

Habit. Perennial.

***Eulaliopsis* Honda, Bot. Mag. (Tokyo) 37: 124. 1923**

Type. *Eulaliopsis angustifolia* Honda (*Spodiopogon angustifolius* Trin.).

1027. *Eulaliopsis binata* (Retz.) C.E. Hubb., Hooker's Icon. Pl. 33: sub t. 3262. 1935

Andropogon binatus Retz., Observ. Bot. (Retz.) 5: 21. 1788 ("1789") (as "binatum").
 Type: "Tschandranconae lectum dedit amiciff. Koenig." India: Travancore; *Koenig s.n.* (LD).
Pollinidium binatum (Retz.) C.E. Hubb., Bull. Misc. Inform. Kew 1932: 72. 1932
Andropogon involutus Steud., Syn. Pl. Glumac. 1: 373. 1854. Type: India; *Wallich* (Numer. List [Wallich] no. 8845)
Andropogon notopogon Steud., Syn. Pl. Glumac. 1: 373. 1854. Type: India; *Royle s.n.*
Andropogon obvallatus Steud., Syn. Pl. Glumac. 1: 373. 1854. Type: Philipines: Luzon, Pangasinan; *H. Cuming 1002*
Spodiopogon angustifolius Trin., Mém. Acad. Imp. Sci. St.-Pétersbourg, Sér. 6, Sci. Math. 2: 300. 1832. Type: Nepal
Ischaemum angustifolium (Trin.) Hack., Hooker's Icon. Pl. 18: t. 1773. 1888
Pollinidium angustifolium (Trin.) Haines, Bot. Bihar Orissa 5: 1020. 1924
Eulaliopsis angustifolia (Trin.) Honda, Bot. Mag. (Tokyo) 38: 56. 1924
Eulaliopsis duthiei Sur, J. Bombay Nat. Hist. Soc. 72: 815. 1976. Type: India: Uttar Pradesh, Ganga Valley, (Tehri-Garhwal); June 11, 1883; *J.F. Duthie 14* (CAL).

Distribution. Andhra Pradesh, Bihar, Chhattisgarh, Gujarat, Jammu and Kashmir, Madhya Pradesh, Maharashtra, Odisha, Punjab, Rajasthan, Uttar Pradesh, Uttarakhand [Afghanistan, China, Myanmar, Nepal, Pakistan].

Habit. Perennial.

***Garnotia* Brongn., Voy. Monde, Phan. 2 (pt. 10): 133. t. 21. 1832**

Type. *Garnotia stricta* Brongn.

1028. *Garnotia acutigluma* (Steud.) Ohwi, Bot. Mag. (Tokyo) 55: 393. 1941 var. *acutigluma*

Urachne acutigluma Steud., Syn. Pl. Glumac. 1: 121. 1854. Type: Java; 1851; *Goering sect. II. nr. 141* (P-STEUD). (as “Japan” is given in Steudel)

Distribution. Arunachal Pradesh, Assam, Meghalaya, Nagaland, Sikkim, West Bengal [Bangladesh, Bhutan, China, Myanmar].

Habit. Perennial.

Remarks. All records for India fide Naithani (1990).

1029. *Garnotia acutigluma* (Steud.) Ohwi var. *longiseta* (Hack.) V. Prakash & S.K. Jain, Fasc. Fl. India 3: 6. 1979

Garnotia stricta Brongn. var. *longiseta* Hack., Allg. Bot. Z. Syst. 15: 141. 1909. Type: Philippines: Luzon, Bataan, Mariveles, alt. 4000 ft.; December 12, 1908; *E.D. Merrill s.n.* (W).

Distribution. Arunachal Pradesh, Meghalaya [also in Indonesia].

Habit. Perennial.

Remarks. Records for India fide Naithani (1990).

1030. *Garnotia arborum* Stapf ex T. Cooke, Fl. Bombay 2(5): 1013. 1908

Type. India: Deccan, Western Ghats, Nandgaon; October 1, 1898; *Woodrow 30* (K).

Distribution. Karnataka, Maharashtra.

Habit. Annual.

1031. *Garnotia arundinacea* Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 243. 1896

Type. India: Tamil Nadu, Nilghiri Hills, alt. 2000–6000 ft.; *Heyne s.n.*

Distribution. Gujarat, Karnataka, Kerala, Madhya Pradesh, Tamil Nadu.

Habit. Annual.

1032. *Garnotia courtallensis* (Arn. & Nees) Thwaites, Enum. Pl. Zeyl. (Thwaites). 363. 1864

Miquelia courtallensis Arn. & Nees, Nov. Actorum Acad. Caes. Leop.-Carol. Nat. Cur., Suppl. 19(1): 179. 1843. Type: India: Courtallum; *Wight cat. no. 2346*

Berghausia courtallensis (Arn. & Nees) Endl. ex Miq., Nieuwe Verh. Eerste Kl. Kon. Ned. Inst. Wetensch. Amsterdam ser. 3, 4: 32. 1851

Garnotia longipila Santos, Nat. Appl. Sci. Bull. Univ. Philipp. 10: 119–120. 1950. Type: India: Madhras, Kodaikanal, Pulney (Palni); December 7, 1898; *A.G. Bourne et uxoris num 1956* (US Nat. Herb.).

Garnotia puchiparensis Bor, Indian Forest Rec., Bot. n.s. 2(4): 234–236. 1941. Type: India: Madras, Silent Valley, Puchipara rest house, alt. 3000 ft.; *Bor 8443* (DD).

Distribution. Karnataka, Kerala, Tamil Nadu [Sri Lanka].

Habit. Annual.

1033. *Garnotia elata* (Arn. ex Miq.) Janowski, Repert. Spec. Nov. Regni Veg. 17: 86. 1921

Berghausia elata Arn. ex Miq., Nieuwe Verh. Eerste Kl. Kon. Ned. Inst. Wetensch. Amsterdam ser. 3, 4: 32. 1851. Type: India; *Wight cat. no. 2600*

Garnotia schmidii Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 242. 1896. Type: India: Nilghiri Hills; *Schmid s.n.*(K). Gondaloor Ghat, alt. 4500 ft.; *Lawson s.n.*

Garnotia tenuiglumis Stapf ex Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 242. 1896. Type: Western Peninsula; *Wight Herb. no. 3247*

Garnotia scoparia Stapf ex Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 242. 1896, non Thwaites, 1864

Distribution. Andhra Pradesh, Karnataka, Kerala, Tamil Nadu, Uttar Pradesh.

Habit. Perennial.

Remarks. *Garnotia schmidii* is treated as a separate species by T.S. Nayar et al.; but Gould (1972) places it here.

1034. *Garnotia exaristata* Gould, Kew Bull. 27(3): 558. 1972

Garnotia tectorum Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 242. 1896, quoad descr. nom. illegit. Type: Sri Lanka: elevated parts of the Island; *Gardner s.n.*

Garnotia mutica sensu Bor, Grasses Burma, Ceylon, India and Pakistan 568. 1960, non (Munro) Druce, 1916

Type. Sri Lanka: Horton Plains; May 10, 1970; *Gould & Cooray 13777* (K).

Distribution. Kerala, Karnataka, Tamil Nadu [Myanmar, Sri Lanka].

Habit. Perennial.

Remarks. Records for Kerala and Tamil Nadu fide Naithani (1990).

1035. *Garnotia fergusonii* Trimen, J. Bot. 27: 170. 1889

Type. Sri Lanka: Central Province, summit of Knuckles Mountains, alt. 6000 ft.; March, 1887; *Ferguson s.n.* (PDA).

Distribution. Karnataka, Tamil Nadu [Sri Lanka].

Habit. Perennial.

Remarks. Records for Karnataka and Tamil Nadu fide Naithani (1990).

1036. *Garnotia micrantha* Thwaites, Enum. Pl. Zeyl. (Thwaites) 363. 1864

Type. “Hab. Central Province, alt. 2000–4000 ft.” Sri Lanka; *Thwaites CP 945* (PDA).

Distribution. Kerala [Sri Lanka].

Habit. Annual.

1037. *Garnotia emodi* (Arn. & Nees) Janowski, Repert. Spec. Nov. Regni Veg. 17: 86. 1921

Miquelia emodi Arn. & Nees, Nov. Actorum Acad. Caes. Leop.-Carol. Nat. Cur. Suppl. 19(1): 178–179. 1843. Type: “In emodi iugo, Royle”; *Royle 33*

Berghausia emodi (Arn. & Nees) Endl. ex Miq., Nieuwe Verh. Eerste Kl. Kon. Ned. Inst. Wetensch. Amsterdam ser. 3, 4: 32. 1851. Type: “In Emodi jugo (*Royle Herb. no. 33*).”

Garnotia polypogonoides Munro ex Oliver, Hooker’s Icon. Pl. 15: 64. t. 1481. 1885. Type. East India, Nepal; Numer. List [Wallich] no. 8884. “Sikkim and the north west Himalaya, also in Wight’s Herbarium unlocalised.”

Distribution. Meghalaya, Sikkim [Nepal].

Habit. Perennial.

1038. *Garnotia scoparia* Thwaites, Enum. Pl. Zeyl. (Thwaites). 363. 1864

Garnotia thwaitesii Stapf ex Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 241. 1896, nom. superfl. & illeg.

Type. Sri Lanka: Hotter parts of the Island; *Munro Ceylon Plant 943* (PDA).

Distribution. Karnataka, Kerala, Tamil Nadu [Sri Lanka].

Habit. Perennial.

Remarks. Record for Karnataka fide Naithani (1990).

1039. *Garnotia stricta* Brongn., Voy. Monde, Phan. 2(pt. 10): 133, t. 21. 1832

Berghausia pallens Arn. ex Miq., Nieuwe Verh. Eerste Kl. Kon. Ned. Inst. Wetensch. Amsterdam ser. 3, 4: 33. 1851. Type: India: Kerala, Quilon; *Wight cat. no. 2598*

Type. “Ile de taiti”

Distribution. Andhra Pradesh, Assam, Bihar, Karnataka, Maharashtra, Meghalaya, Sikkim, Uttar Pradesh, Uttarakhand [China, Myanmar].

Habit. Perennial.

1040. *Garnotia tenella* (Arn. ex Miq.) Janowski, Repert. Spec. Nov. Regni Veg. 17: 86. 1921

Berghausia tenella Arn. ex Miq., Nieuwe Verh. Eerste Kl. Kon. Ned. Inst. Wetensch. Amsterdam ser. 3, 4: 34. 1851. Type: India; *Wight cat. no. 2599*

Garnotia stricta sensu Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 243. 1896, non Brongn., 1832

Distribution. Andhra Pradesh, Bihar, Goa, Gujarat, Karnataka, Kerala, Maharashtra, Meghalaya, Nagaland, Odisha, Sikkim, Tamil Nadu, Uttar Pradesh, West Bengal [Bhutan, China, Myanmar, Nepal].

Habit. Annual.

Remarks. Record for Nepal and all records for India except Goa fide Naithani (1990).

1041. *Garnotia variyamensis* Sunil, Naveen Kum. & Sanilkum. in J. Bot. Res. Inst. Texas 8(2): 517. 2014.

Type. India: Kerala, Ernakulam district, Edamalayar Forest Range, Variyam, 794 m, 16 October 2013, *Sunil & Naveen Kumar 6193* (holotype: CAL; isotype: MH).

Distribution. Kerala.

Habit. Annual.

***Germainia* Balansa & Poitr, Bull. Soc. Hist. Nat. Toulouse 7: 344. 1873**

Type. *Germainia capitata* Balansa & Poitr.

1042. *Germainia khasyana* Hack., Oesterr. Bot. Z. 41: 50. 1891

Type. India: Khasya, Nartung, alt. 4000; *C.B. Clarke* 44830. Pooriung; *C.B. Clarke* 42558.

Distribution. Assam, Meghalaya.

Habit. Perennial.

***Glyphochloa* Clayton, Kew Bull. 35(4): 814. 1981**

Type. *Glyphochloa forficulata* (C.E.C. Fisch.) Clayton (*Manisuris forficulata* C.E.C. Fisch.)

1043. *Glyphochloa acuminata* (Hack.) Clayton, Kew Bull. 35(4): 815. 1981 var. *acuminata*

Rottboellia acuminata Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 291. 1889. Type: Maisur & Carnatic; *J.D. Hooker & Thomson s.n.*

Manisuris acuminata (Hack.) Kuntze, Revis. Gen. Pl. 2: 779. 1891

Peltophorus acuminatus (Hack.) A. Camus, Bull. Mus. Natl. Hist. Nat. 27: 371. 1921

Distribution. Karnataka, Kerala, Maharashtra.

Habit. Annual.

1044. *Glyphochloa acuminata* (Hack.) Clayton var. *stocksii* (Hook. f.) Clayton, Kew Bull. 35(4): 815. 1981

Rottboellia acuminata Hack. var. *stocksii* Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 155. 1896. Type: India: Malwar; *J.E. Stocks s.n.* (K).

Rottboellia acuminata Hack. var. *stocksii* (Hook. f.) Clayton, Kew Bull. 35(4): 815. 1981

Manisuris acuminata (Hack.) Kuntze var. *stocksii* (Hook. f.) Jain, Bull. Bot. Surv. India 12(1–4): 9. 1972 (“1970”)

Distribution. Karnataka, Maharashtra, Tamil Nadu.

Habit. Annual.

1045. *Glyphochloa acuminata* (Hack.) Clayton var. *woodrowii* (Bor) Clayton, Kew Bull. 35(4): 815. 1981

Manisuris acuminata (Hack.) Kuntze var. *woodrowii* Bor, Grasses Burma, Ceylon, India & Pakistan 191. 1960. Type: India: Bombay; *R.K. Bhide s.n.* (K).

Distribution. Karnataka, Maharashtra.

Habit. Annual.

1046. *Glyphochloa divergens* (Hack.) Clayton, Kew Bull. 35(4): 815. 1981 var. *divergens*

Rottboellia divergens Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 292. 1889. Type: India: *Hügel in h. Vindob.* 3147

Manisuris divergens (Hack.) Kuntze, Revis. Gen. Pl. 2: 779. 1891

Distribution. Karnataka, Kerala, Maharashtra.

Habit. Annual.

1047. *Glyphochloa divergens* (Hack.) Clayton var. *hirsuta* (C.E.C. Fisch.) Clayton, Kew Bull. 35(4): 815. 1981

Manisuris forficulata C.E.C. Fisch. var. *hirsuta* C.E.C. Fisch., Bull. Misc. Inform. Kew 1933: 355. 1933. Type: India: Bababudan Hills, Kalhatti, alt. 6000 ft.; November; *A. Meebold* 10559 (K-Isotype).

Manisuris divergens (Hack.) Kuntze var. *hirsuta* (C.E.C. Fisch.) Jain, Bull. Bot. Surv. India 12(1–4): 12. 1972 (“1970”)

Distribution. Karnataka, Maharashtra.

Habit. Annual.

1048. *Glyphochloa forficulata* (C.E.C. Fisch.) Clayton, Kew Bull. 35(4): 815. 1981

Manisuris forficulata C.E.C. Fisch., Bull. Misc. Inform. Kew 1933: 355. 1933 var. *forficulata*. Type: India: Bombay Presidency, Mahableshwar; *J.C. Lisboa s.n.* (K).

Rottboellia divergens sensu Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 155. 1896, non Hack., 1889

Distribution. Karnataka, Kerala, Madhya Pradesh, Maharashtra, Tamil Nadu.

Habit. Annual.

Remarks. Records for Madhya Pradesh, Maharashtra, and Tamil Nadu fide Naithani (1990).

1049. *Glyphochloa goaensis* (R. S. Rao & Hemadri) Clayton, Kew Bull. 35(4): 815. 1981

Manisuris goaensis R. S. Rao & Hemadri, Bull. Bot. Surv. India 10(1): 106. 1968.

Type: India: Goa, rocky plateau near Verna village on Cortalim-Madgoa road; November 8, 1962; *R.S. Rao 84474A* (CAL.)

Distribution. Goa, Maharashtra.

Habit. Annual.

1050. *Glyphochloa maharashtraensis* Potdar & S.R. Yadav, Kew Bull. 66(4): 625. 2012. var. *maharashtraensis*

Type. India: Maharashtra, Kolhapur district, Udgiri, 906 m, 10 October 2007, *Potdar 1880* (holotype: CAL; isotypes: BLAT, BSI, K, SUK).

Distribution. Maharashtra.

Habit. Annual

1051. *Glyphochloa maharashtraensis* Potdar & S.R. Yadav var. *hirsuta* Potdar & S.R. Yadav, Kew Bull. 66(4): 628. 2012.

Type. India; Maharashtra, Kolhapur district, Udgiri, 906 m, 10 October 2007, *Potdar 1927* (holotype: CAL; isotypes: BLAT, K, SUK).

Distribution. Maharashtra.

Habit. Annual.

1052. *Glyphochloa mysorensis* (Jain & Hemadri) Clayton, Kew Bull. 35(4): 815. 1981

Manisuris mysorensis Jain & Hemadri, Bull. Bot. Surv. India 10: 280. 1969. Type: India: Mysore State, Castle Rock; October 25, 1902; *G. A. Gammie 15643* (CAL).

Distribution. Karnataka, Maharashtra.

Habit. Annual.

1053. *Glyphochloa ratnagirica* (B. G. Kulk. & Hemadri) Clayton, Kew Bull. 35: 815. 1981

Manisuris ratnagirica B. G. Kulk. & Hemadri, Indian Forester 100(4): 250. 1974.
Type: India: Maharashtra, Ratnagiri District, Ambolighat, alt. 2000 ft.; October 12, 1970; *B.G. Kulkarni 121638A* (K).

Distribution. Karnataka, Maharashtra.

Habit. Annual.

1054. *Glyphochloa santapau* (Jain & Deshp.) Clayton, Kew Bull. 35(4): 815. 1981

Manisuris santapau Jain & Deshp., Bull. Bot. Surv. India 10(3–4): 277. 1969 (“1968”). Type: India: Maharashtra State, Ratnagiri; September 15, 1961; *C. Saldanha 7130A* (CAL).

Distribution. Maharashtra.

Habit. Annual.

1055. *Glyphochloa talbotii* (Hook. f.) Clayton, Kew Bull. 35(4): 816. 1981

Rottboellia talbotii Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 155. 1896 (as “Talboti”). Type: India: Goa District; *Talbot 2572* (K).

Manisuris talbotii (Hook. f.) Bor, Grasses Burma, Ceylon, India and Pakistan 192. 1960

Peltophorus talbotii (Hook. f.) A. Camus, Bull. Mus. Natl. Hist. Nat. 27: 371. 1921 (as “talboti”)

Distribution. Goa, Maharashtra.

Habit. Annual.

1056. *Glyphochloa veldkampii* M.A.Fonseca & Janarth., Rheedeia 13(1–2): 35–38. f. 1. 2004

Type. India: Goa, Kasauli, along the Panaji-Belgaum highway in the outskirts of Bhagwan Mahavir Wildlife Sanctuary, alt. 272 ft., 15° 21'N, 74°11'E; October 21, 2001; *Janarthanam & Fonseca 1901* (CAL).

Distribution. Goa.

Habit. Annual.

***Hemarthria* R. Br., Prodr. Fl. Nov. Holland. 207. 1810**

Lectotype. *Hemarthria compressa* (L. f.) R. Br. (*Rottboellia compressa* L. f.). LT designated by Nash, N. Amer. Fl. 17: 87. 30 1909; affirmed by Hitchcock, Bull. U.S.D.A. 772: 278. 1920.

1057. *Hemarthria altissima* (Poir.) Stapf & C.E. Hubb., Bull. Misc. Inform. Kew 1934: 109. 1934

Rottboellia altissima Poir., Voy. Barbarie 2: 105. 1789 (as “Rottboella”). Type: Algeria: Bastion; *Poiret s.n.* (P-LA).

Manisuris altissima (Poir.) Hitchc., J. Wash. Acad. Sci. 24(7): 292. 1934

Rottboellia compressa L.f. var. *fasciculata* Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 286. 1889

Rottboellia fasciculata Lam., Tabl. Encycl. 1: 204. 1792, nom. superfl. & illeg. for *R. altissima*

Hemarthria fasciculata Kunth, Révis. Gramin. 1: 153. 1829, nom. superfl.

Distribution. Tamil Nadu [China, Myanmar].

Habit. Perennial.

1058. *Hemarthria compressa* (L.f.) R. Br., Prodr. Fl. Nov. Holland. 1: 207. 1810

Rottboellia compressa L.f., Suppl. Pl. 114. 1782 (“1781”). Type: “Habitat in indiis”
Neotype: Numer. List [Wallich] no. 8871-E (L). Neotype designated by E. van den Heuvel & J.F. Veldkamp in *Blumea* 45(2): 455. 2000.

Hemarthria coromandelina Steud., Syn. Pl. Glumac. 1: 358. 1854. Type: *Roxburgh., Pl. Coromandel* 2: pl. 181 (1805). Epitype: *Roxburgh s.n.* (BM). Epitype designated by E. van den Heuvel & J.F. Veldkamp in *Blumea* 45(2): 469. 2000.

Hemarthria laxa Steud., Syn. Pl. Glumac. 1: 358. 1854. Type: India; Numer. List [Wallich] no. 8871 (P).

Rottboellia glabra Roxb., Fl. Ind. (Carey and Wallich ed.) 1: 353. 1820. Type: India: Bengal, Pasture land; *Roxburgh s.n.* (BM).

Distribution. Andhra Pradesh, Chhattisgarh, Dehli, Gujarat, Jammu and Kashmir, Karnataka, Madhya Pradesh, Maharashtra, Odisha, Rajasthan, Tamil Nadu, Uttar Pradesh, Uttarakhand [Afghanistan, Bangladesh, Bhutan, China, Myanmar, Nepal, Pakistan, Sri Lanka].

Habit. Perennial.

1059. *Hemarthria hamiltoniana* Steud., Syn. Pl. Glumac. 1: 358. 1854

Rottboellia compressa L.f. var. *hamiltoniana* (Steud.) Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 288. 1889

Rottboellia protensa (Steud.) Hack. var. *hamiltoniana* (Steud.) Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 154. 1896

Type. India: upper Gangetic Plains, Kathpur; *Buchanan-Hamilton* (Numer. List [Wallich] no. 8870-C) (K).

Distribution. Uttar Pradesh.

Habit. Perennial.

1060. *Hemarthria longiflora* (Hook. f.) A. Camus, Fl. Indo-Chine [P.H. Lecomte et al.] 7: 379–380. 1922

Rottboellia longiflora Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 154. 1896. Lectotype: India: Tenasserim, Mergui; *Griffith KD 1009* (K). LT designated by E. van den Heuvel & J.F. Veldkamp in *Blumea* 45(2): 459. 2000.

Rottboellia tonkinensis A. Camus, Bull. Mus. Natl. Hist. Nat. 25: 369. 1919. Lectotype: Vietnam: Sontay; *Balansa 1783* (P). LT designated by E. van den Heuvel & J.F. Veldkamp in *Blumea* 45(2): 459. 2000.

Distribution. Assam [Bangladesh, China, Myanmar].

Habit. Perennial.

1061. *Hemarthria vaginata* Buse, Pl. Jungh. 354. 1854

Hemarthria protensa Steud., Syn. Pl. Glumac. 1: 359. 1854. Type: India Orientalis; *Wallich* (Numer. List [Wallich] no. 8872).

Manisuris protensa (Steud.) Hitchc., Brittonia 2(2): 127. 1936

Rottboellia protensa (Steud.) Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 289. 1889

Type. Indonesia: Java, Tijibogo; *F.W. Junghuhn s.n.* (L-903.342-454).

Distribution. Arunachal Pradesh, Assam, West Bengal, Bihar, Meghalaya, Nagaland [Bangladesh, Bhutan, China, Myanmar, Nepal].

Habit. Perennial.

***Hemisorghum* C.E. Hubb., Grasses Burma, Ceylon, India & Pakistan 686. 1960**

Type. *Hemisorghum mekongense* (A. Camus) C.E. Hubb. (*Sorghum mekongense* A. Camus).

1062. *Hemisorghum venustum* (Thwaites) Clayton, Kew Bull. 27(3): 448. 1972

Andropogon venustus Thwaites, Enum. Pl. Zeyl. (Thwaites). 367. 1864. Type: Sri Lanka: Central Province, Rambodde, alt. upto 4000 ft.; *Thwaites Ceylon Plant* 2875 (K)
Bothriochloa venusta (Thwaites) A. Camus, Ann. Soc. Linn. Lyon ser. 2, 76: 165. 1931
Capillipedium venustum (Thwaites) Bor, Grasses Burma, Ceylon, India and Pakistan 113. 1960
Vetiveria venusta (Thwaites) Willis, Revis. Cat. Fl. Pl. Ceylon 110. 1911

Distribution. Tamil Nadu [Sri Lanka].

Habit. Perennial.

Remarks. Record for Tamil Nadu fide Naithani (1990).

***Heteropogon* Pers., Syn. Pl. (Persoon) 2: 533. 1807**

Lectotype. *Heteropogon glaber* Pers., nom. illeg. (*Andropogon allioni* DC., *Heteropogon allionii* (DC.) Roem. & Schult.). LT designated by Nash in N. Amer. Fl. 17: 127. 1912; affirmed by Hitchcock, Bull. U.S.D.A. 772: 273. 1920.

1063. *Heteropogon contortus* (L.) P. Beauv., Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 836. 1817

Andropogon contortus L., Sp. Pl. 2: 1045. 1753 (as “contortum”). Type: “Habitat in India.” Lectotype. “Gram. Secalinum, Indicum, spica gracili, tomentoso, aristis longioribus, ad se invicem intortis” in Plukenet, Phytographia, t. 191. f. 5. 1692. Voucher: *Herb. Sloane* 92: 78; 96: 69 (BM-SL). LT designated by Cope in Nasir & Ali (ed.), Fl. Pakistan 143: 312. 1982.

Andropogon allionii Lam. ex DC., Fl. Franc. (DC. & Lamarck), ed. 3. 3: 97. 1805. Type: “*Andropogon contortum* All. Ped. n. 2277. t. 91. f. 4. excl. syn.” “Cette espèce croit sur les collines et les rochers, au-dessus du lac d’Ivrée et de la vallée de Suze (All.)”

Heteropogon allionii (Lam. ex DC.) Roem. & Schult., Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 835. 1817

Andropogon besukiensis Steud., Syn. Pl. Glumac. 1: 367. 1854. Type: Indonesia: “Ad rupes montis Arak-Ak Prov. Besukie, Java”; *Zollinger Herb. no.* 2770

Heteropogon firmus J. Presl, Reliq. Haenk. 1(4–5): 334. 1830. Type: “Habitat in Mexico.”

Heteropogon hispidissimus Hochst. ex Steud., Syn. Pl. Glumac. 1: 367. 1854. Type: Ethiopia: Tigray, Gafta; 18 September, 1838; *G.H.W. Schimper* 1219 (K).

Andropogon polystachyos Roxb., Fl. Ind. (Carey and Wallich ed.) 1: 265. 1820

Heteropogon polystachyos (Roxb.) Schult., Mant. 2 (Schultes) 460. 1824 (as “polystachyus”)

Heteropogon roxburghii Arn. ex Nees, Gramineae: 51. 1841.

Heteropogon glaber Pers., Syn. Pl. (Persoon) 2: 533. 1807, nom. superfl. & illeg. for *Andropogon allionii*

Heteropogon hirsutus P. Beauv., Ess. Agrostogr. 134. 1812, no reference to basionym and nom. nud.

Andropogon bellardii Bubani, Nuovo Giorn. Bot. Ital. 5: 317. 1873 (as “bellardi”), nom. superfl. & illeg.

Heteropogon hirtus Pers., Syn. Pl. (Persoon) 2: 533. 1807, nom. superfl. & illeg. for *Andropogon contortus*

Heteropogon hohenackeri Hochst. ex Miq., Nieuwe Verh. Eerste Kl. Kon. Ned. Inst. Wetensch. Amsterdam ser. 3, 4: 36. 1851, nom. nud. Type: India: Manglore; *Metz Herb. no. 301*

Distribution. Andhra Pradesh, Bihar, Chhattisgarh, Delhi, Goa, Haryana, Himachal Pradesh, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Nagaland, Odisha, Rajasthan, Tamil Nadu, Uttar Pradesh, Uttarakhand, West Bengal [China, Myanmar, Pakistan].

Habit. Perennial.

1064. *Heteropogon fischerianus* Bor, Kew Bull. 1951: 170–171. 1951

Heteropogon contortus (L.) P. Beauv. var. *distichus* C.E.C. Fisch., Fl. Madras 3(10): 1743. 1934. Type: India: Anamallais, alt. 3500 ft.; *Barber s.n.* Kodaikanal, alt. 6000–7000 ft.; *Bourne s.n.*

Type. India: Madras, Kodaikanal, Pulneys, Jesmond Hill; July 1, 1901; *Ibid* 2025 (K).

Distribution. Kerala, Tamil Nadu.

Habit. Perennial.

1065. *Heteropogon melanocarpus* (Elliot) Benth., J. Linn. Soc., Bot. 19: 71. 1881

Andropogon melanocarpus Elliot, Sketch Bot. S. Carolina 1: 146. 1816. Type: USA: Georgia, in the pine barrens between Fort Barrington on the Altamaha and Jefferson on the Satilla; *R. Habersham s.n.* (CHARL).

Cymbopogon melanocarpus (Elliot) Spreng., Syst. Veg. (ed. 16) [Sprengel] 1: 289. 1824 (“1825”)

Heteropogon acuminatus Trin., Mém. Acad. Imp. Sci. St.-Petersbourg, Sér. 6, Sci. Math. 2: 254. 1832. Type: Brazil

Andropogon polystictus Hochst. ex Steud., Syn. Pl. Glumac. 1: 369. 1854. Type: Abyssinia [Ethiopia]; [*Schimper*] *Hrbr. Abyss.* 2012

Heteropogon polystictus (Hochst. ex Steud.) Hochst., Flora 39: 28. 1856

Heteropogon roylei Nees ex Steud., Syn. Pl. Glumac. 1: 367. 1854, nom. inval., pro. syn. of *Andropogon segaenensis*

Distribution. Rajasthan, Uttar Pradesh, Uttarakhand [China].

Habit. Annual.

1066. *Heteropogon ritchiei* (Hook. f.) Blatt. & McCann, J. Bombay Nat. Hist. Soc. 32: 623. 1928

Andropogon ritchiei Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 201. 1896. Type: India: Deccan, Belaum; *Ritchie s.n.*

Distribution. Gujarat, Karnataka, Maharashtra, Rajasthan.

Habit. Annual.

1067. *Heteropogon triticeus* (R. Br.) Stapf ex Craib, Bull. Misc. Inform. Kew 1912: 432. 1912

Andropogon triticeus R. Br., Prodr. Fl. Nov. Holland. 1: 201. 1810. Type: Australia: “Littora Novae Hollandiae intra tropicum.”

Andropogon ischyranthus Steud., Syn. Pl. Glumac. 1: 367. 1854. Type: Philippines; *Cuming Herb. no. 1005*

Andropogon lianatherus Steud., Syn. Pl. Glumac. 1: 367. 1854. Type: Indonesia: Java

Andropogon segaenensis Steud., Syn. Pl. Glumac. 1: 367. 1854. Type: India: “*Heteropogon Roylei* Nees mpt., Numer. List [Wallich] no. 8801”

Heteropogon insignis Thwaites, Enum. Pl. Zeyl. (Thwaites). 437. 1864. Type: Sri Lanka: Mahning-galla, Matelle East; *Thwaites Ceylon Plant 3804*

Distribution. Gujarat, Karnataka, Maharashtra, Tamil Nadu [China, Myanmar, Sri Lanka].

Habit. Perennial.

***Hyparrhenia* Andersson ex E. Fournier, Mex. Pl. 2: 51, 67. 1886**

Lectotype. *Hyparrhenia foliosa* (Kunth) E. Fournier (*Anthistiria foliosa* Kunth). LT designated by Clayton in Kew Bull. Add. Ser. 2: 38. 1969.

1068. *Hyparrhenia cymbaria* (L.) Stapf, Fl. Trop. Afr. [Oliver et al.] 9: 332. 1919

Andropogon cymbarius L., Mant. Pl. Altera 303. 1771 (as “cymbarium”). Type: “Habitat in India orientali. Koenig.” Lectotype: *Herb. Linn. No. 1211.6* (LINN). LT designated by Clayton in Kew Bull., Addit. Ser. 2: 110. 1969.

Distribution. Tamil Nadu [also in Africa].

Habit. Perennial.

1069. *Hyparrhenia griffithii* Bor, Indian Forest Rec., Bot. n. s. 1(3): 92. 1938

Andropogon filipendulus sensu Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 210. 1896, non Hochst. 1846, p.p.

Andropogon finitimus sensu Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 637. 1889, non Hochst. ex A. Rich., 1851

Type. India: Assam, Khasi and Jaintia Hills; 1837; *Griffith* 6766 (K).

Distribution. Meghalaya. [China, Myanmar].

Habit. Perennial.

1070. *Hyparrhenia hirta* (L.) Stapf, Fl. Trop. Afr. [Oliver et al.] 9: 315. 1919

Andropogon hirtus L., Sp. Pl. 2: 1046. 1753 (as “hirtum”). Type: “Habitat in Lusitania, Sicilia, Smyrnae.” Lectotype: *Herb. Burser I: 119* (UPS). LT designated by Clayton in Kew Bull., Addit. Ser. 2: 75. 1969.

Sorghum hirtum (L.) Kuntze, Revis. Gen. Pl. 2: 792. 1891

Trachypogon hirtus (L.) Nees, Fl. Bras. Enum. Pl. 2(1): 346. 1829

Cymbopogon hirtus (L.) Nees ex Stapf, Bull. Misc. Inform. Kew 1907: 212. 1907

Distribution. Northwest India [China, Pakistan].

Habit. Perennial.

Remarks. Distribution in India not reported.

1071. *Hyparrhenia rufa* (Nees) Stapf, Fl. Trop. Afr. [Oliver et al.] 9: 304. 1919

Trachypogon rufus Nees, Fl. Bras. Enum. Pl. 2(1): 345. 1829. Type: Brasilia: “Habitat in campis agrestibus provinciae Piauiensis”; *Martius s.n.* (M).

Andropogon rufus (Nees) Kunth, Enum. Pl. (Kunth) 1: 492. 1833.

Cymbopogon rufus (Nees) Rendle, Cat. Afr. Pl. 2(1): 155. 1899

Sorghum rufum (Nees) Kuntze, Revis. Gen. Pl. 2: 792. 1891

Distribution. India [China, Myanmar]. Naturalized and weedy; native to Africa.

Habit. Perennial.

Remarks. Distribution in India not reported.

***Imperata* Cirillo, Pl. Rar. Neapol. 2: 26. 1792**

Type. *Imperata arundinacea* Cirillo, nom. illeg. (*Lagurus cylindricus* L., *Imperata cylindrica* (L.) P. Beauv.).

1072. *Imperata cylindrica* (L.) P. Beauv., Ess. Agrostogr. 165, 166. 1812 var. *cylindrica*

Lagurus cylindricus L., Syst. Nat., ed. 10. 2: 878. 1759. Type: “Habitat [Monspeli, Creta, Smyrnae. D. Gerardus.] Sp. Pl., ed. 2. 1: 120. 1762.” Lectotype: Herb. Linn. No. 96.2 (LINN). LT designated by Clayton & Renvoize in Polhill (ed.), Fl. Trop. E. Africa, Gramineae 3: 700. 1982.

Saccharum cylindricum (L.) Lam., Encycl. (Lamarck) 1(2): 594. 1785

Saccharum laguroides Pourr., Mem. Acad. Sci. Toulouse 3: 326. 1788

Imperata arundinacea Cirillo, Pl. Rar. Neapol. 2: 26, t. 11. 1792. Type: “Habitat in collibus argillosis, perennis.”

Imperata arundinacea Cirillo var. *europaea* sensu Asch. & Graebn., Syn. Mitteleur. Fl. [Ascherson & Graebner]. 2(1): 37. 1898, non Andersson, 1855

Calamagrostis lagurus Koeler, Descr. Gram. (Koeler) 112. 1802, nom. superfl. & illeg. for *Lagurus cylindricus*

Distribution. Andaman and Nicobar Islands, Andhra Pradesh, Assam, Bihar, Gujarat, Himachal Pradesh, Jammu and Kashmir, Karnataka, Kerala, Maharashtra, Madhya Pradesh, Manipur, Meghalaya, Odisha, Punjab, Rajasthan, Sikkim, Tamil Nadu, Tripura, Uttar Pradesh, West Bengal [Afghanistan, Bhutan, China, Myanmar, Nepal, Pakistan, Sri Lanka].

Habit. Perennial.

1073. *Imperata cylindrica* (L.) P. Beauv. var. *latifolia* (Hook. f.) C.E. Hubb., Joint Publ. Imp. Agric. Bur. 7: 12. 1944

Imperata arundinacea Cirillo var. *latifolia* Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 106. 1896. Type: Tropical Himalaya from Kuman to Assam.

Imperata latifolia (Hook. f.) L. Liou, Vasc. Pl. Hengduan Mountains 2: 2299. 1994

Distribution. Andhra Pradesh, Assam, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Tamil Nadu, Tripura, Uttar Pradesh [Nepal].

Habit. Perennial.

1074. *Imperata cylindrica* (L.) P. Beauv. var. *major* (Nees) C.E. Hubb., Grasses Mauritius 96. 1940

Imperata koenigii (Retz.) P. Beauv. var. *major* Nees, Fl. Afr. Austral. Ill. 90. 1841. Type: "In valle prope Fakoskraal inter Omgaziana et Omsamwubo alt. 1500–2000 ft.; Drege s.n."

Imperata allang Jungh., Tijdschr. Natuurl. Gesch. Physiol. 7: 295. 1840. Type: Indonesia: Java, Regio, alt. 3000 ft.

Imperata cylindrica (L.) P. Beauv. subvar. *koenigii* (Retz.) Durand & Schinz, Consp. Fl. Afr. [T.A. Durand & H. Schinz] 5: 694. 1894

Imperata koenigii (Retz.) P. Beauv., Ess. Agrostogr. 165, 177. 1812

Saccharum koenigii Retz., Observ. Bot. (Retzius) 5: 16. 1788 ("1789"). Type: "Misit honor. Konig ab amicissimo Thunberg accepi sub nomine Sacchari spicati ex Japonia, Konig s.n." "Crescit in Insula Nipon ubique vulgate, locis humidis iuxta rivos et alibi."

Imperata filifolia Nees, Syn. Pl. Glumac. (Steudel) 1: 405. 1855. Type: India; Numer. List [Wallich] no. 8850-E as *I. Koeniggi*

Imperata pedicellata Steud., Flora 29: 22. 1846. Type: "Ob flosculos omnes pedicellatos forsan novi generic typus, obstat vero habitus cum reliques speciebus omnino conformis."

Saccharum spicatum sensu Thunb., Fl. Jap. (Thunberg) 42. 1784, non L., 1753

Distribution. Andhra Pradesh, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Tamil Nadu, Tripura, Uttar Pradesh [Afghanistan, China, Myanmar, Nepal, Pakistan, Sri Lanka].

Habit. Perennial.

***Ischaemum* L., Sp. Pl. 2: 1049. 1753**

Lectotype. *Ischaemum muticum* L. LT designated by Nash, N. Amer. Fl. 17: 94. 30 Jun 1909; affirmed by M.L. Green, Prop. Brit. Bot. 193. 1929.

1075. *Ischaemum afrum* (J.F. Gmel.) Dandy, Fl. Pl. Anglo-Egyptian Sudan 3: 476. f. 120. 1956

Andropogon afer J.F. Gmel., Syst. Nat. 2: 166. 1791. Lectotype: dessins in Bruce, Travels 5: 47. 1790

Andropogon pilosus Klein ex Willd., Sp. Pl., ed. 4 [Willdenow] 4: 920. 1806. Type: "Habitat in India orientali Mysore."

Ischaemum pilosum (Klein ex Willd.) Wight, Madras Lit. Sci. J. 138. 1835 (also reprint p. 2, t. 2.)

Andropogon pilifer Steud., Syn. Pl. Glumac. 1: 373. 1854. Type: India; Heyne s.n. as *A. pilosus* (Numer. List [Wallich] no. 8817)

Spodiopogon pilosus Nees ex Steud., Syn. Pl. Glumac. 1: 373. 1854, nom. inval., pro. syn.

Distribution. Andhra Pradesh, Gujarat, Karnataka, Madhya Pradesh, Maharashtra, Rajasthan, Tamil Nadu [China, Myanmar].

Habit. Perennial.

1076. *Ischaemum agastyamalayanum* Sreek., Janarth. & A. N. Henry, J. Bombay Nat. Hist. Soc. 84: 643. 1988

Type. India: Kerala, Trivandrum District, Western slopes of Agastyamalai, alt. 6000 ft.; October 6, 1973; *J. Joseph* 44634 (CAL).

Distribution. Kerala.

Habit. Perennial.

1077. *Ischaemum barbatum* Retz., Observ. Bot. (Retzius) 6: 35. 1791

Ischaemum aristatum L. var. *mangaluricum* Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 204. 1889. Type: Peninsular India: Mangalur; *R.F. Hohenacker* 184

Ischaemum mangaluricum (Hack.) Stapf ex C.E.C. Fisch., Fl. Madras 3(10): 1723. 1934

Ischaemum aristatum L. var. *imbricatum* Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 203. 1889. Syntypes: India: Khasia Mountains, alt. 4000 ft.; *J.D. Hooker & Thomson* s.n. Sri Lanka; *Thwaites* 2625

Ischaemum imbricatum (Hack.) Stapf ex Ridl., Fl. Malay. Penin. 5: 200. 1925

Ischaemum aristatum L. var. *fallax* Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 204. 1889. Syntypes: Peninsular India; *Wight* s.n. Jabalpur; *Kuntze* s.n. Sri Lanka; *Wight* 2553, *Thwaites* 700. Macassar; *Wichura* s.n.

Ischaemum geniculatum Roxb., Fl. Ind. (Carey and Wallich ed.) 1: 324. 1820. Type: India: Bengal

Ischaemum goebelii Hack., Oesterr. Bot. Z. 51: 149. 1901. Type: Sri Lanka: Colombo; *Goebel* s.n.

Ischaemum aristatum sensu Hack., Handb. Fl. Ceylon 5: 211. 1900, non L., 1753

Ischaemum abrahamii Ravi, N. Mohanan & R. Rajesh, Bot. Bull. Acad. Sin. (Taipei) 42(3): 225. f. 2. 2001. Type: India, Kerala, Malappuram District, Manathuman-galam, alt. 160 ft.; December 12, 1996; *Ravi* 33027 (TBGT).

Ischaemum wayanadense Ravi, N. Mohanan & Shaju, Bot. Bull. Acad. Sin. (Taipei) 42(3): 223. f. 1. 2001. Type: India: Kerala, Wayand District, Kelloor, Thekkump-ara, 2500 ft.; December 14, 1996; *Ravi* 33779 (TBGT).

Type. “E Jaua accipi a pl. rev. D. Wennerbeg.” Indonesia: Java; *Wennerberg s.n.*

Distribution. Goa, Karnataka, Kerala, Maharashtra, Odisha, Sikkim, Tamil Nadu, West Bengal [Bangladesh, China, Myanmar, Sri Lanka].

Habit. Perennial.

1078. *Ischaemum bolei* M.R. Almeida, Indian Forester 98(4): 236. f. 1–11. 1972

Type. India: Maharashtra, Ratnagiri District, Savantwadi; November 18, 1970; *M.R. Almeida 1535* (BLAT).

Distribution. Maharashtra.

Habit. Annual.

1079. *Ischaemum bombaiense* Bor, J. Bombay Nat. Hist. Soc. 49: 165. 1950

Type. India: Bombay, Khandala, Tata's Lake; *Blatter 9904* (K).

Distribution. Maharashtra, Rajasthan.

Habit. Annual.

Remarks. Record for Rajasthan fide Naithani (1990).

1080. *Ischaemum calicutense* Sreek., V.J. Nair, & N.C. Nair, J. Econ. Taxon. Bot. 4(3): 1007–1009. f. 1–16. 1983 (as “calicutensis”)

Type. India: Kerala, Calicut District, Pokkunnamalai, near Nanminda alt. 2800 ft.; October 29, 1981; *P.V. Sreekumar 71803* (CAL).

Distribution. Kerala.

Habit. Perennial.

1081. *Ischaemum kannanorensis* Sreek., V.J. Nair, & N.C. Nair, J. Econ. Taxon. Bot. 4(3): 1009–1011. f. 1–18. 1983 (as “kannanorensis”)

Type. India: Kerala, Kannanore District, Paramba, on the way to Bendudka, alt. 500 ft.; October 16, 1981; *P.V. Sreekumar 71713* (CAL).

Distribution. Kerala.

Habit. Perennial.

1082. *Ischaemum ciliare* Retz., Observ. Bot. (Retzius) 6: 36. 1791

Andropogon asthenos Steud., Syn. Pl. Glumac. 1: 376. 1854

- Andropogon malacophyllus* Hochst. ex Steud., Syn. Pl. Glumac. 1: 372. 1854. Type: India: Nilgiri Mountains; 1851; *R.F. Hohenacker* 917 (S-G400).
- Ischaemum indicum* (Houtt.) Merr. subvar. *malacophyllum* (Hochst. ex Steud.) Bor, Grasses Burma, Ceylon, India and Pakistan 180. 1960
- Ischaemum ciliare* Retz. var. *prorepens* Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 226. 1889. Type: cited many Syntypes
- Ischaemum indicum* (Houtt.) Merr. subvar. *villosum* (Nees) Bor, Grasses Burma, Ceylon, India and Pakistan 180. 1960
- Spodiopogon villosus* Hook & Arn., Bot. Beechey Voy. 6: 242. 1838. Type: “Hab. Prope Macao.”
- Ischaemum indicum* (Houtt.) Merr. subvar. *scrobiculatum* (Hack.) Bor, Grasses Burma, Ceylon, India and Pakistan 180. 1960
- Ischaemum ciliare* Retz. var. *scrobiculatum* Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 226. 1889 (as “subvar”)
- Ischaemum tenellum* Roxb., Fl. Ind. (Carey and Wallich ed.) 1: 324–325. 1820. Type: Not given
- Spodiopogon obliquivalvis* Nees, Nov. Actorum Acad. Caes. Leop.-Carol. Nat. Cur. 19, Suppl. 1: 185. 1843, nom. superfl. & illeg. for *Ischaemum ciliare* Retz.
- Spodiopogon scrobiculatus* Nees ex Steud., Syn. Pl. Glumac. 1: 373. 1854, nom. invalid., pro. syn.
- Ischaemum indicum* (Houtt.) Merr. var. *wallichii* (Hack.) Bor, Grasses Burma, Ceylon, India and Pakistan 180. 1860
- Ischaemum ciliare* Retz. var. *wallichii* Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 227. 1889. Type: [Bangladesh]: Silhet; Numer. List [Wallich] no. 8860B

Type. “E. China accipi.”

Distribution. Andhra Pradesh, Assam, Bihar, Dadra and Nagar Haveli, Goa, Gujarat, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Tamil Nadu, Tripura, Uttar Pradesh, West Bengal [China, Sri Lanka].

Habit. Perennial.

Remarks. *Ischaemum ciliare* Retz. is sometimes treated as a synonym of *I. indicum* (Houtt.) Merr. However, the type of *I. indicum* (Houtt.) Merr. is *Polytrias indica*, and thus the epithet *indicum* is misapplied to *I. ciliare*.

1083. *Ischaemum commutatum* Hack. ex Trimen, Syst. Cat. Fl. Pl. Ceylon 107. 1885.

Ischaemum semisagittatum sensu Thwaites, Enum. Pl. Zeyl. (Thwaites). 365. 1864, non Roxb., 1820

Type. Sri Lanka; *Thwaites* 2625.

Distribution. Karnataka, Kerala, Maharashtra, Tamil Nadu [Sri Lanka].

Habit. Perennial.

1084. *Ischaemum copeanum* Sreek., V.J. Nair & N.C. Nair, J. Bombay Nat. Hist. Soc. 82: 390. f. 1. 1985

Ischaemum keralense Sreek., V.J. Nair & N.C. Nair, Bull. Mus. Natl. Hist. Nat., B, Adanson 4e Ser. 7, 2: 135. t. 1. 1985 (as "keralensis"). Type: India: Kerala, Cannanore District, Cherkala, alt. 800 ft.; November 24, 1981; *P.V. Sreekumar 71839* (CAL).

Type. India: Kerala, Cannanore District, Cherkala, alt. 800 ft.; November 24, 1981; *V. Sreekumar 71838* (CAL).

Distribution. Kerala.

Habit. Annual.

1085. *Ischaemum dalzellii* Stapf ex Bor, Kew Bull. 1951: 448. 1952

Ischaemum conjugatum sensu Thwaites, Enum. Pl. Zeyl. (Thwaites). 365. 1864, non Roxb, 1820

Ischaemum semisagittatum sensu Hook. f., Handb. Fl. Ceylon 5: 213. 1900, non Roxb., 1832

Type. India: Bombay, Yellapur, "roadsides in forest, common"; October 25, 1884; *W.A. Talbot 738* (K).

Distribution. Karnataka, Kerala, Maharashtra.

Habit. Annual.

1086. *Ischaemum diplopogon* Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 129. 1896

Type. India: Bombay, near Bhorkus; *Woodrow s.n.* (K).

Distribution. Gujarat, Maharashtra, Rajasthan.

Habit. Annual.

1087. *Ischaemum elimalayanum* Sreek., V.J. Nair & N.C. Nair, Fl. Kerala - Grasses 459, 134. t. 26. 1991

Type. India: Kerala, Cannanore District, Elimala, 960 ft.; October 20, 1981; *P.V. Sreekumar 71773* (CAL).

Distribution. Kerala.

Habit. Perennial.

1088. *Ischaemum flumineum* Bor, Kew Bull. 1949: 572. 1950

Type. India: Bombay, Jog; April 28, 1939; *N.L. Bor 11390* (K, DD).

Distribution. Karnataka, Maharashtra, Tamil Nadu.

Habit. Perennial.

Remarks. Records for Karnataka and Tamil Nadu fide Naithani (1990).

1089. *Ischaemum heterotrichum* Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 220. 1889

Syntypes. Madagascar: Mayotte, Nosibe; *Boivin s.n.* Nicobares; *Jelinek s.n.*

Distribution. Andaman and Nicobar Islands [China].

Habit. Perennial.

1090. *Ischaemum hubbardii* Bor, Indian Forest Rec., Bot. n.s. 1(3): 98. 1938

Type. India: Assam, Khasi and Jaintia Hills, Cherrapungi Plateau, alt. 4000–5000 ft.; *N.L. Bor s.n.* (K?).

Distribution. Assam, Meghalaya.

Habit. Perennial.

Remarks. Record for Meghalaya fide Naithani (1990).

1091. *Ischaemum huegelii* Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 252. 1889

Ischaemum inerme Stapf ex Bor, Kew Bull. 1951: 448. 1952. Type: India: Bombay, Bandra; October 25, 1896; *R.C. Wroughton s.n.* (K).

Type. India orientalis; *Hügel 1658* (W).

Distribution. Maharashtra.

Habit. Annual.

1092. *Ischaemum impressum* Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 210. 1889

Type. Asia; *Hügel 4018*.

Distribution. Delhi, Karnataka, Maharashtra, Rajasthan.

Habit. Annual.

1093. *Ischaemum jayachandranii* R. Ansari, V.S. Ramach. & Sreek., Curr. Sci. 53(3): 151. 1984

Type. India: Kerala, Cannanore District, Nileswar, alt. 500 ft.; January 29, 1979; V.J. Nair 59981 (CAL).

Distribution. Kerala.

Habit. Perennial.

1094. *Ischaemum kingii* Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 129. 1896

Type. India: Bombay, Rajpootana, Mt. Aboo; *King s.n.* (K).

Distribution. Maharashtra, Rajasthan.

Habit. Annual.

1095. *Ischaemum koenigii* (Hook. f.) Stapf ex C.E.C. Fisch., Fl. Madras 3(10): 1719, 1722. 1934

Ischaemum aristatum L. ssp. *koenigii* Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 127. 1896. Type: India: Precise locality unknown; *J. Koenig s.n.*

Ischaemum fasciculatum Rottl. ex Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 127. 1896, nom. nud., used as synonym

Distribution. Tamil Nadu.

Habit. Perennial.

1096. *Ischaemum kumarakodiense* Ravi, N. Mohanan & Kiran Raj, Rheede 8(2): 150. 1998 (as “kumarakodiensis”)

Type. India: Kerala, Alappuzha District, Pallana; December 29, 1996; *TBG & RI 33084* (TBGT).

Distribution. Kerala.

Habit. Perennial.

1097. *Ischaemum lanatum* Ravi, N. Mohanan & Shaju, Rheede 10(2): 91. 2000

Type. India: Kerala, Kasaragode District, Hosdurg Taluk, Periya, alt. 160 ft.; November 29, 1999; *Ravi 41535* (TBGT).

Distribution. Andhra Pradesh, Kerala, Tamil Nadu.

Habit. Annual.

1098. *Ischaemum lisboae* Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 133. 1896*Ischaemum aristatum* L. var. *barberi* C.E.C. Fisch., Fl. Madras 10(3): 1722. 1934.Type: India: Mangalore; *Barber* no. 4803**Type.** India: North Canara; *Lisboa* s.n.**Distribution.** Karnataka, Kerala.**Habit.** Perennial.**1099. *Ischaemum malabaricum* Sreek., V.J. Nair & N.C. Nair, Kew Bull. 39(4): 743. f. 1. 1984****Type.** India: Kerala, Cannanore District, Paramba, alt. 500 ft.; October 16, 1981; *Sreekumar* 71720 (CAL).**Distribution.** Kerala.**Habit.** Annual.**1100. *Ischaemum molle* Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 128. 1896****Syntypes.** India: Concan; *Dalzell* s.n. Central Provinces, Chanda District; *Duthie* s.n.**Distribution.** Gujarat, Karnataka, Kerala, Maharashtra, Rajasthan, Tamil Nadu [Pakistan].**Habit.** Perennial.**1101. *Ischaemum muticum* L., Sp. Pl. 2: 1049. 1753 var. *muticum****Andropogon polymorphus* Steud., Syn. Pl. Glumac. 1: 375. 1854. Type: Java: “*Ischaemum muticum* Zolling Morit Verz. P. 99 no. 1216.”*Andropogon relictus* Steud., Syn. Pl. Glumac. 1: 377. 1854. Type: Philippines*Ischaemum repens* Roxb., Fl. Ind. (Carey and Wallich ed.) 1: 325. 1820. Type: “A native of Pulopenang.”*Andropogon repens* (Roxb.) Steud., Syn. Pl. Glumac. 1: 374. 1854*Ischaemum glabratum* J. Presl in C. Presl, Reliq. Haenk. 1(4–5): 328. 1830. Type: “Habitat in insulis Philippines.” Philippines; *Haenke* s.n.*Andropogon muticus* (L.) Steud., Syn. Pl. Glumac. 1: 374. 1854, non. L., 1763**Type.** “Habitat in India.” Lectotype: *Herb. Linn. No. 1214.1*(LINN). LT designated by Renvoize in Jarvis et al. (ed.), *Regnum Veg.* 127: 57. 1993.**Distribution.** Andaman and Nicobar, Karnataka, Kerala, Lakshadweep, Maharashtra, Tamil Nadu [China, Myanmar, Sri Lanka].**Habit.** Perennial.

1102. *Ischaemum nairii* V.J. Nair & Sreek., J. Econ. Taxon. Bot. 5(5): 1205. f. 1. 1984

Type. India: Kerala, Calicut District, Kanjeerakadavu, near Kakkayam, alt. 3000; November 26, 1981; *P.V. Sreekumar 71843* (CAL).

Distribution. Kerala.

Habit. Perennial.

1103. *Ischaemum pappinisseriense* Ravi, N. Mohanan & Kiran Raj, Rheede 8(2): 155. 1998 (as “pappinisseriensis”)

Type. India: Kerala, Kannur District, Pappinisseri; December 12, 1996; *Ravi TBG & RI 33707* (TBGT).

Distribution. Kerala.

Habit. Annual.

1104. *Ischaemum polystachyum* J. Presl, Reliq. Haenk. 1(4–5): 328. 1830

Ischaemum digitatum Brongn. var. *polystachyum* (J. Presl) Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 233. 1889

Ischaemum digitatum Brongn., Voy. Monde 2(2): 70, pl. 13. 1831. Type: Moluccas, Buru.

Ischaemum duthiei Stapf ex Bor, Kew Bull. 1950: 188. 1950. Type: India: Bihar, Neterhat, 3200 ft., along streams; October 19, 1918; *H.H. Haines 5856*

Ischaemum fasciculatum Brongn., Voy. Monde 2(2): 73. 1831

Ischaemum hirtum Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 228. 1889. Type: India: Khasia Mountain, alt. 6000 ft.; *J.D. Hooker & Thomson Spodiopogon no. 13*

Ischaemum lacei Stapf ex Bor, Kew Bull. 1950: 187. 1950. Type: Burma: Amherst, Daiona Range, Muleyit Peak, alt. 6400 ft.; January 27, 1912; *J.A. Lace 5627* (K).

Ischaemum nilagiricum Hack., Oesterr. Bot. Z. 51: 150. 1901. Type: India: Nilgherries Mountains ad Canoor, 5500 ft.; March 13, 1870; *Clarke 10791*

Ischaemum hirtum sensu Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 135. 1896, non Hack., 1889

Type. Mariana Islands, *Haenke s.n.*

Distribution. Assam, Andhra Pradesh, Bihar, Himachal Pradesh, Karnataka, Kerala, Madhya Pradesh, Meghalaya, Tamil Nadu, West Bengal [Sri Lanka].

Habit. Perennial.

Remarks. Records for Himachal Pradesh, Madhya Pradesh, and West Bengal fide Naithani (1990).

1105. *Ischaemum pushpangadanii* Ravi, N. Mohanan & Kiran Raj, *Rheedea* 10(1): 49. f. 1. 2000

Ischaemum glabriglaucum Sunil, *Candollea* 60(2): 387–391. f. 1–2. 2005. Type: India: Kerala, Trichur District, Vazhachal, 1000 ft.; October 4, 1999; *Sunil* 2235 (K).

Type. India: Kerala, Kozhikode District, Koilandy Taluk, Kakkayam Hills, 1400 ft.; October 26, 1999; *Ravi* 41460 (TBGT).

Distribution. Kerala.

Habit. Annual.

1106. *Ischaemum quilonense* Ravi & Shaju, *Rheedea* 8(2): 152. 1998 (as “quilonensis”)

Type. India: Kerala, Kollam District, Perumkulam Ela near Kollam Town; October 27, 1996; *Ravi TBGT RI* 24098 (TBGT).

Distribution. Kerala.

Habit. Perennial.

1107. *Ischaemum raizadae* Hemadri & Billore, *Indian Forester* 96(4): 318. 1970

Ischaemum borii M.R. Almeida, *J. Bombay Nat. Hist. Soc.* 66: 513. f. 1. 1970. Type: India: Maharashtra, Ratnagiri, Savantwadi, Amboli; December 24, 1968; *M. R. Almeida* 895 (BLAT).

Type. India: Maharashtra, Thana District, Harishchandragarh, Sadrya ghat; November 16, 1968; *K.V. Billore* 115450A (CAL).

Distribution. Karnataka, Maharashtra.

Habit. Annual.

Remarks. Record for Karnataka fide Naithani (1990). It is unclear whether these two species are distinct or not. Clayton et al. (2006 onwards) recognize *I. borii* but not *I. raizadae*.

1108. *Ischaemum rangacharianum* C.E.C. Fisch., *Bull. Misc. Inform. Kew* 1933: 352. 1933

Ischaemum fischeri Ravi & Kiran Raj, *Bot. Bull. Acad. Sin. (Taipei)* 42(3): 227. 2001. Type: India: Kerala, Thiruvananthapuram District, Palode-TBGRI campus, 500 ft.; February 12, 1998; *Ravi* 36706 (TBGT).

Ischaemum aristatum sensu Ranga, *Handb. S. Ind. Grasses* 151. 1921, non L., 1753

Type. India: Malabar District, Shoranur; November; *K. Ranga Achariyar s.n.* (K).

Distribution. Andhra Pradesh, Kerala, Maharashtra, Tamil Nadu.

Habit. Annual.

Remarks. Record for Kerala and Tamil Nadu fide Naithani (1990).

1109. *Ischaemum raui* Sreek., V.J. Nair & N.C. Nair, Fl. Ind. ser. 2., Grasses: 459, 157. 1991

Type. India: Kerala, Cannanore District, Muguroad, alt. 500 ft.; October 17, 1981; *P.V. Sreekumar 71747* (CAL).

Distribution. Kerala.

Habit. Annual.

1110. *Ischaemum ritchiei* Stapf ex Bor, Kew Bull. 1951: 449. 1952

Type. India: Bombay, Kanara; *Ritchie s.n.* (fide Munro) (K).

Distribution. Karnataka, Maharashtra.

Habit. Annual.

Remarks. Record for Karnataka fide Naithani (1990).

1111. *Ischaemum rugosum* Salisb., Icon. Stirp. Rar. 1, t. 1. 1791 var. *rugosum*

Meoschium rugosum (Salisb.) Arn. & Nees, Nov. Actorum Acad. Caes. Leop.-Carol. Nat. Cur., Suppl. 19(1): 200. 1843

Meoschium griffithii Nees & Arn., Ann. Mag. Nat. Hist. 1: 284. 1838. Type: India: Madras; *Griffith s.n.*

Andropogon griffithsiae (Nees ex Arn.) Steud., Syn. Pl. Glumac. 1: 375. 1854

Andropogon tong-dong Steud., Syn. Pl. Glumac. 1: 375. 1854. Syntypes: Nepal, India: Silhet; Numer. List [Wallich] no. 8864, F.H.J. Tong-Dong. *Wall. Ind. Burm. no. 1013*

Colladoa distachia Cav., Icon. (Cavanilles) 5(1): 37, t. 460. 1799. Type: "Habitat in humidis memoratae insulae Mindanao prope Samboangan. Vidi siccam in dicto herbario."

Meoschium arnottianum Nees, Nov. Actorum Acad. Caes. Leop.-Carol. Nat. Cur., Suppl. 19(1): 198. 1843. Type: "Peninsula Indiae orientalis, ad Madras, *Mrs Griffiths in Herb. Lindl.*" Wight Cat. no. 1720

Andropogon arnottianus (Nees) Steud., Syn. Pl. Glumac. 1: 375. 1854

Meoschium wightianum Nees, Nov. Actorum Acad. Caes. Leop.-Carol. Nat. Cur., Suppl. 19(1): 199. 1843, nom. invalid, cited as synonym of *Meoschium elegans*

Ischaemum colladoa Spreng., Syst. Veg. (ed. 16) [Sprengel] 1: 298. 1824 (“1825”), nom. superfl. & illeg. for *Colladoa distachya* Cav.

Andropogon segetum Steud., Syn. Pl. Glumac. 1: 376. 1854

Ischaemum segetum Trin., Mém. Acad. Imp. Sci. St.-Petersbourg, Sér. 6, Sci. Math. 2: 294. 1832, nom. superfl. and illeg.? Type: Philippines: Manila

Meoschium royleanum Nees ex Steud., Syn. Pl. Glumac. 1: 375. 1854, nom. inval., pro. syn.

Type. “Sponte nascentem in Orissa ad margines agrorum oryzaceorum”, India: Orissa, *J. Koenig s.n.* (BM).

Distribution. Andaman and Nicobar Islands, Andhra Pradesh, Assam, Bihar, Delhi, Dadra and Nagar Haveli, Gujarat, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Rajasthan, Sikkim, Tamil Nadu, Tripura, Uttar Pradesh, West Bengal [China, Myanmar, Pakistan, Sri Lanka].

Habit. Annual.

1112. *Ischaemum santapaui* Bor, J. Bombay Nat. Hist. Soc. 49: 167. 1950

Type. India: Bombay Presidency, Karjat; December 11, 1949; *H. Santapau* 9665 (K).

Distribution. Maharashtra.

Habit. Annual.

1113. *Ischaemum sayajiraoi* Raole & R.J. Desai, Kew Bull. 66(2): 303–306, f. 1. 2011

Type. India: Gujarat, Vadodara district, Bacrol, 3 October 2008, *R. J. Desai* 32 (holotype BARO; isotype: K).

Distribution. Gujarat.

Habit. Annual.

1114. *Ischaemum semisagittatum* Roxb., Fl. Ind. (Carey & Wallich ed.) 1: 322–323. 1820

Andropogon semisagittatus (Roxb.) Steud., Syn. Pl. Glumac. 1: 376. 1854

Meoschium semisagittatum (Roxb.) Schult., Mant. 2 (Schultes) 435. 1824

Spodiopogon semisagittatus (Roxb.) Voigt, Hort. Suburb. Calcutta 706. 1845

Andropogon cordatifolius Steud., Syn. Pl. Glumac. 1: 376. 1854

Ischaemum conjugatum Roxb., Fl. Ind. (Carey and Wallich ed.) 1: 323. 1820 (as “conjugatam”). Type: India: “A native of pasture land in the vicinity of Calcutta.”

Spodiopogon conjugatus (Roxb.) Voigt, Hort. Suburb. Calcutta 706. 1845

Type. India: “A native of newly formed pasture land in Bengal.”

Distribution. Andhra Pradesh, Dadra and Nagar Haveli, Daman and Diu, Goa, Karnataka, Kerala, Madhya Pradesh, Maharashtra, West Bengal [Sri Lanka].

Habit. Annual.

1115. *Ischaemum sreenarayanii* Sunil, Nithya & Remya Kr., Bangladesh J. Pl. Taxon. 24(1): 33. 2017

Type. India: Kerala, Thrissur district, Kombazha, 11 m, 8 December 2015, *Sunil & Nithya 9007* (holotype: MH; isotype: CALI, SNMH).

Distribution. Kerala.

Habit. Perennial.

1116. *Ischaemum tadulingamii* N.C. Nair & Sreek., Blumea 30(2): 385. f. 1. 1985

Type. India: Kerala State, Idukki District, Eravikulam National Park, alt. 7000 ft.; April 7, 1980; *Sreekumar 71863* (CAL).

Distribution. Kerala, Tamil Nadu.

Habit. Annual or Perennial.

1117. *Ischaemum thomsonianum* Stapf ex C.E.C. Fisch., Fl. Madras 3(10): 1722. 1934

Ischaemum murinum sensu Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 135. 1896, non G. Forst., 1786

Type. India: Mysore or the Carnatic; *Thomson s.n.*

Distribution. Karnataka, Kerala, Maharashtra, Tamil Nadu [China, Myanmar].

Habit. Annual.

1118. *Ischaemum timorense* Kunth, Révis. Gramin. 1: 369. t. 98. 1830 var. *timorense*

Andropogon timorensis (Kunth) Steud., Syn. Pl. Glumac. 1: 376. 1854

Andropogon blumii Steud., Syn. Pl. Glumac. 1: 373. 1854. Type: Java, Ceylon, Burma: Martaban; Numer. List [Wallich] no. 8863

Spodiopogon blumii Nees ex Steud., Syn. Pl. Glumac. 1: 373. 1854, nom. invalid, as syn. of *Andropogon blumii* Nees; mpt. sub: *Spodiopogon*.

Type. “Crescit in insula Timor.”

Distribution. Assam, Bihar, Gujarat, Karnataka, Kerala, Maharashtra, Meghalaya, Tamil Nadu, Tripura, West Bengal [Bangladesh, China, Myanmar, Pakistan, Sri Lanka].

Habit. Annual.

1119. *Ischaemum timorense* Kunth var. *zeylanicum* Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 230. 1889

Ischaemum zeylanicola Bor, Grasses Burma, Ceylon, India and Pakistan 186. 1960

Type. Sri Lanka; *Thwaites* 3168.

Distribution. Andaman and Nicobar Islands, Karnataka, Kerala, Maharashtra, Tamil Nadu [Sri Lanka].

Habit. Annual.

Remarks. Records for Andaman and Nicobar Islands, Kerala, Maharashtra, and Tamil Nadu fide Naithani (1990).

1120. *Ischaemum travancoreense* Stapf ex C.E.C. Fisch., Bull. Misc. Inform. Kew 1933: 353. 1933

Ischaemum aristatum L. ssp. *rottleri* Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 127. 1896. Type: India: Deccan; *Rottler* s.n.

Type. India: Bababudan Hills; April; *Sir A. G. and Lady Bourne* s.n. (K).

Distribution. Kerala, Tamil Nadu, Maharashtra.

Habit. Perennial.

1121. *Ischaemum tumidum* Stapf ex Bor, Kew Bull. 1951: 450. 1952

Type. India: Madras, Concan; *Stocks* s.n. (K).

Distribution. Karnataka, Kerala, Madhya Pradesh, Maharashtra, Tamil Nadu.

Habit. Annual.

Remarks. All records for India except for Karnataka fide Naithani (1990).

1122. *Ischaemum vembanadense* Patil & D'Cruz, J. Bombay Nat. Hist. Soc. 70: 324. f. 1–8. 1974

Type. India: Kerala, Allepy backwaters; January 10, 1970; *Patil* s.n. (BSI).

Distribution. Kerala.

Habit. Perennial.

1123. *Ischaemum yadavii* Gad & Janarth., Kew Bull. 62(3): 499–501. f. 1. 2007

Type. India: Goa, Surla, Lateritic rocky plateau, 15°40'03"N, 74°10'28"E, alt. 2600 ft.; October 2, 2005; *Harshala Gad & M.K. Janarthanam* 240 (CAL).

Distribution. Goa.

Habit. Annual.

***Iseilema* Andersson, Nova Acta Regiae Soc. Sci. Upsal. ser. 3. 2: 250. 1856**

Type. *Iseilema prostratum* (L.) Andersson (*Andropogon prostratus* L. (as “*prostratum*”)).

1124. *Iseilema anthephoroides* Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 683. 1889

Type. India orientalis. Numer. List [Wallich] no. 8767 A. Peninsula; *Wight. 2335* “leg. ? : via in h. Nees, ad Appiahpilly in ditione Cuddapah”. “d na Stead in h. m., pr. Scholapur.”

Distribution. Andhra Pradesh, Bihar, Daman and Diu, Dadra and Nagar Haveli, Gujarat, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Rajasthan, Tamil Nadu, Uttar Pradesh, Uttarakhand.

Habit. Annual.

1125. *Iseilema hackelii* U. B. Shrestha & Gandhi, Harvard Pap. Bot. 13(2): 296. 2008

Iseilema laxum Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 682. 1889, nom. illeg. later homonym non *I. laxum* Hack. ex Duthie, 1888

Iseilema laxum Hack. ex Duthie, Fodder Grasses North. India 43. 1888, p.p. Type: Protologue.

Iseilema jainiana P. Umam. & P. Daniel, J. Bombay Nat. Hist. Soc. 98(3): 425. 2001. Type: India: Tamil Nadu, Tuticorin District, Gulf of Mannar coast, Kanyakumari-Thiruchendur highway, between Karaichuthu and Padakkapathu diversion, c. 130 ft.; January 26, 1996; *P. Daniel; P. Umamaheswari* 107240 (CAL).

Distribution. Andhra Pradesh, Bihar, Delhi, Chhattisgarh, Goa, Gujarat, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Rajasthan, Tamil Nadu, Uttar Pradesh, West Bengal [Sri Lanka].

Habit. Perennial.

1126. *Iseilema holei* Haines, Bot. Bihar Orissa 5: 1055. 1924**Type.** India: Palaman, in moist ground forest; *Haines s.n.***Distribution.** Bihar, Madhya Pradesh, Maharashtra.**Habit.** Annual.**Remarks.** All records for India fide Naithani (1990).**1127. *Iseilema hubbardii* Uppuluri, J. Bombay Nat. Hist. Soc. 65: 665. 1969****Type.** India. University campus of Ujjain, Madhya Pradesh. 22 November, 1966, *Murty field number IAU 3*. LT *U. Satyavathi* – *IAU 3*, designated by Drisya, V. & A. K. Pradeep. *Phytotaxa* 424(1): 56–60. 2019.**Distribution.** Madhya Pradesh.**Habit.** Annual.**1128. *Iseilema prostratum* (L.) Andersson, Nova Acta Regiae Soc. Sci. Upsal. ser. 3. 2: 251. 1856 (as “prostrata”)***Andropogon prostratus* L., Mant. Pl. Altera 304. 1771 (as “prostratum”). Type: “Habitat in India orientali. Koenig.” Lectotype: *Herb. Linn. No. 1211.8* (LINN). LT designated by Renvoize in Cafferty et al. (ed.), *Taxon* 49: 246. 2000.*Anthistiria prostrata* (L.) Willd., Sp. Pl., ed. 4 [Willdenow] 4: 901. 1806*Anthistiria wightii* Nees, Syn. Pl. Glumac. (Steudel) 1: 400. 1855. Type: India Orientalis; Wight in Numer. List [Wallich] no. 8870*Iseilema wightii* (Nees) Andersson, Nova Acta Regiae Soc. Sci. Upsal. ser. 3. 2: 251. 1856*Cymbopogon glandulosus* Spreng., Pl. Min. Cogn. Pug. 2: 14. 1815, nom superfl. & illeg. for *Andropogon prostratus* L.**Distribution.** Andhra Pradesh, Bihar, Chhattisgarh, Goa, Gujarat, Karnataka, Madhya Pradesh, Maharashtra, Rajasthan, Tamil Nadu, Uttar Pradesh [Myanmar, Pakistan, Sri Lanka].**Habit.** Perennial.**1129. *Iseilema venkateswarlui* Satyavathi, J. Bombay Nat. Hist. Soc. 65: 666–667. 1969****Type.** India: Andhra Pradesh, Guntur, Lam Farm; September 26, 1966; *Satyavathi s.n.* (K).**Distribution.** Andhra Pradesh.**Habit.** Annual.

***Lasiurus* Boiss., Diagn. Pl. Orient. ser. 2. 4(4): 145. 1859**

Type. *Lasiurus hirsutus* Boiss., nom. illeg. (*Rottboellia hirsuta* Vahl, nom. illeg.; *Triticum aegilopoides* Forssk.).

1130. *Lasiurus scindicus* Henrard, Blumea 4(3): 514. 1941

Lasiurus ecaudatus Satyanar. & Shank., J. Bombay Nat. Hist. Soc. 60: 763–764. 1964.

Type: India: Rajasthan, Jodhpur, C.R. Farm, Central Arid Zone Research Institute, alt. 800 ft.; January 7, 1962; Y. Satyanarayan & K.A. Shankarnarayan 719 (BSJO).

Elionurus hirsutus Munro, J. Linn. Soc., Bot. 19: 68. 1881, p.p.

Lasiurus hirsutus Boiss., Diagn. Pl. Orient. ser. 2, 3(4): 146. 1859, p.p.

Rottboellia hirsuta Vahl, Symb. Bot. (Vahl) 1: 11. 1790, p.p.

Type. “India: Scind, leg Stocks. Herb. Ind. Or. Hook. fil. et Thomson. Typus in H. L. B. sub no. 908, 87–853.”

Distribution. Gujarat, Rajasthan [Afghanistan, Pakistan].

Habit. Perennial.

***Leptatherum* Nees, Proc. Linn. Soc. Lond. 1: 92. 1841**

Type. *Leptatherum royleanum* Nees.

1131. *Leptatherum nudum* (Trin.) C.Hui Chen, Kuoh & Veldkamp, Blumea 54(1–3): 179. 2009

Pollinia nuda Trin., Mém. Acad. Imp. Sci. St.-Petersbourg, Sér. 6, Sci. Math. 2: 307.

1832. Type: Nepal; Wallich s.n. in Herb. Hornem. (LE).

Microstegium nudum (Trin.) A. Camus, Ann. Soc. Linn. Lyon ser. 2, 68: 201. 1921

Eulalia nuda (Trin.) Kuntze, Revis. Gen. Pl. 2: 775. 1891

Leptatherum japonicum Franch. & Sav., Enum. Pl. Jap. 2: 190. 1877. Type: Japan: circa Yokoska, in locis humidis, in orizariis; Savatier 1507, 2557

Pollinia japonica Miq., Ann. Mus. Bot. Lugduno-Batavi 2: 290. 1866. Type: Japan (“Nippon?”); Keiske s.n. (L).

Leptatherum royleanum Nees, Proc. Linn. Soc. London 1: 92–93. 1841

Distribution. Assam, Himachal Pradesh, Jammu and Kashmir, Kerala, Meghalaya, Nagaland, Sikkim, Tamil Nadu, Uttar Pradesh, Uttarakhand, West Bengal [Bhutan, China, Nepal, Pakistan].

Habit. Annual.

***Lophopogon* Hack., Nat. Pflanzenfam., ed. 2 [Engler & Prantl] 2(2): 26. 1887**

Type. *Lophopogon tridentatus* (Roxb.) Hack. (*Andropogon tridentatus* Roxb.).

1132. *Lophopogon kingii* Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 149. 1896

Type. India: Bihar, Monghir; *Mokim* 1408.

Distribution. Bihar.

Habit. Perennial.

1133. *Lophopogon tridentatus* (Roxb.) Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 254. 1889

Andropogon tridentatus Roxb., Fl. Ind. (Carey and Wallich ed.) 1: 261. 1820. Type: India: Native of Coromandel; *Roxburgh* s.n.

Apocypis tridentata (Roxb.) Benth., J. Linn. Soc., Bot. 19: 67. 1881

Saccharum tridentatum (Roxb.) Spreng., Syst. Veg. (ed. 16) [Sprengel] 1: 283. 1824 (“1825”)

Lophopogon duthiei Stapf ex Bor, Grasses Burma, Ceylon, India and Pakistan 689. 1960. Type: India orientalis: Madhya Pradesh; *J.F. Duthie* 8490 (K).

Distribution. Andhra Pradesh, Assam, Bihar, Gujarat, Karnataka, Madhya Pradesh, Maharashtra, Tamil Nadu.

Habit. Annual or perennial.

***Manisuris* L., Mant. Pl. Altera 164, 300. 1771**

Type. *Manisuris myurus* L.

1134. *Manisuris myurus* L., Mant. Pl. Altera 300. 1771

Rottboellia myurus (L.) Benth., J. Linn. Soc., Bot. 19: 68. [indirect reference to Linnaean name]

Peltophorus myurus (L.) Desv., Nouv. Bull. Sci. Soc. Philom. Paris 2: 188. 1810

Type. “Habitat in India.” Lectotype: *Herb. Linn. No. 1215.2* (LINN). LT designated by Clayton in Cafferty et al. (ed.), *Taxon* 49: 252. 2000.

Distribution. Andhra Pradesh, Karnataka, Manipur, Tamil Nadu.

Habit. Perennial.

Remarks. Although *Manisuris* L. is rejected against *Rottboellia* L.f. (1782), recent studies recognize them as distinct genera.

***Microstegium* Nees, Nat. Syst. Bot., ed. 2 447. 1836**

Type. *Microstegium willdenovianum* Nees.

1135. *Microstegium borianum* Sur, J. Bombay Nat. Hist. Soc. 79: 652. f. 1. 1983 ("1982")

Type. India.

Distribution. Meghalaya.

Habit. Perennial.

1136. *Microstegium ciliatum* (Trin.) A. Camus, Ann. Soc. Linn. Lyon ser. 2, 68: 201. 1921.

Pollinia ciliata Trin., Mém. Acad. Imp. Sci. St.-Petersbourg, Sér. 6, Sci. Math. 2: 306. 1832. Type: Nepal; *Wallich ex hb. Hornem.* (LE).

Eulalia ciliata (Trin.) Kuntze, Revis. Gen. Pl. 2: 775. 1891

Andropogon biaristatus Steud., Syn. Pl. Glumac. 1: 379. 1854. Type: Nepal; Numer. List [Wallich] no. 8823

Microstegium biaristatum (Steud.) Keng, Sinensia 3(3): 92. 1932

Pollinia monantha Nees, Syn. Pl. Glumac. (Steudel) 1: 410. 1854. Type: India; Numer. List [Wallich] no. 8819 as "Andropogon"

Eulalia monantha (Nees) Kuntze, Revis. Gen. Pl. 2: 775. 1891

Microstegium monanthum (Nees) A. Camus, Ann. Soc. Linn. Lyon ser. 2, 68: 200. 1921

Pollinia ciliata Trin. var. *seminuda* Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 177. 1889. Type: Sri Lanka; *Thwaites 411*

Pollinia lancea Nees, Syn. Pl. Glumac. (Steudel) 1: 410. 1854. Type: India; Numer. List [Wallich] no. 8815-B, Numer. List [Wallich] no. 8831

Pollinia laxa Nees, Syn. Pl. Glumac. (Steudel) 1: 410. 1854. Type: India; Numer. List [Wallich] no. 8823 as "Andropogon"

Pollinia wallichiana Nees, Syn. Pl. Glumac. (Steudel) 1: 410. 1854. Type: India: Sylhet; Numer. List [Wallich] no. 8822 as "Andropogon"

Distribution. Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Himachal Pradesh, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Meghalaya, Nagaland, Odisha, Sik-

kim, Tamil Nadu, Uttar Pradesh, West Bengal [Bangladesh, Bhutan, China, Myanmar, Nepal, Sri Lanka].

Habit. Perennial.

1137. *Microstegium eucnemis* (Nees) A. Camus, Ann. Soc. Linn. Lyon ser. 2, 68: 200. 1921.

Pollinia eucnemis Nees, Syn. Pl. Glumac. (Steudel) 1: 409. 1854. Type: India; Numer. List [Wallich] no. 8812 as “*Andropogon*”

Eulalia eucnemis (Nees) Kuntze, Revis. Gen. Pl. 2: 775. 1891

Coelarthron brandisii Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 164. 1896. Type: Burma: high ground, generally with teak; 1883; *Brandis s.n.* (K).

Microstegium brandisii (Hook. f.) D. Rhind, Grass. Burma 62. 1945

Distribution. Tamil Nadu, Uttar Pradesh [China, Myanmar].

Habit. Perennial.

1138. *Microstegium falconeri* (Hook. f.) Clayton, Kew Bull. 35(4): 816. 1981

Ischnochloa falconeri Hook. f., Hooker’s Icon. Pl. 25: t. 2466. 1896. Type: India: North-Western Himalaya, growing amongst moss; *Falconer s.n.* (K).

Distribution. India (North western Himalaya).

Habit. Annual.

Remarks. Distribution in India not reported.

1139. *Microstegium fasciculatum* (L.) Henrard, Blumea 3(3): 453. 1940

Andropogon fasciculatus L., Sp. Pl. 2: 1047. 1753. Type: “Habitat in Indiis.”, Lectotype: Herb. Linn. No. 1211.27, lower central specimen (LINN). LT designated by Cope in Cafferty et al. (ed.), Taxon 49: 245. 2000. Original designation by Henrard in Blumea 3: 454. 1940

Tripsacum fasciculatum (L.) Raspail, Ann. Sci. Nat. (Paris) 5: 306. 1825

Pollinia vagans Nees, Syn. Pl. Glumac. (Steudel) 1: 410. 1854. Type: Nepal; Numer. List [Wallich] no. 8807-B

Microstegium vagans (Nees) A. Camus, Ann. Soc. Linn. Lyon ser. 2, 68: 200. 1921

Eulalia vagans (Nees) Kuntze, Revis. Gen. Pl. 2: 775. 1891

Pollinia grata Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 175. 1889. Syntypes: India: Bengal, Silligori; *O. Kuntze s.n.* Sikkim, alt. 4500–6000 ft.; *J.D. Hooker & T. Thomson s.n.* Java; *Hoffmannsegg s.n.* (B) and many syntypes.

Microstegium gratum (Hack.) A. Camus, Ann. Soc. Linn. Lyon ser. 2, 68: 201. 1921

Pollinia montana Nees, Syn. Pl. Glumac. (Steudel) 1: 409. 1854. Type: Indonesia: Java, Mountains; *Junghuhn s.n.*

Ephedopogon gratus Nees & Mey. ex Steud., Nomencl. Bot., ed. 2 (Steudel) 1: 556. 1840, nom. nud.

Distribution. Arunachal Pradesh, Assam Meghalaya, Uttar Pradesh, Uttarakhand [Bhutan, China, Myanmar, Nepal].

Habit. Perennial.

1140. *Microstegium petiolare* (Trin.) Bor, Indian Forest Rec., Bot. n.s. 1(3): 87. 1938

Spodiopogon petiolaris Trin., Mém. Acad. Imp. Sci. St.-Pétersbourg, Sér. 6, Sci. Math. 2: 301–302. 1832. Type: Nepal; *Wallich* (Numer. List [Wallich] no. 8807)

Andropogon petiolaris (Trin.) Steud., Syn. Pl. Glumac. 1: 398. 1854

Ischaemum petiolare (Trin.) Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 238. 1889

Pollinia lehmannii Arn. & Nees, Nov. Actorum Acad. Caes. Leop.-Carol. Nat. Cur., Suppl. 19 (1): 186. 1843 (as “lehmanni”). Type: Not given.

Spodiopogon lehmannii (Arn. & Nees) Griseb., Nachr. Königl. Ges. Wiss. Georg-Augusts-Univ. 91. 1868 (as “lehmanni”)

Distribution. Assam, Chhattisgarh, Madhya Pradesh, Meghalaya [China, Myanmar, Nepal].

Habit. Perennial.

1141. *Microstegium reticulatum* B. S. Sun ex H. Peng & X. Yang, Acta Phytotax. Sin. 34(2): 213–215, pl. 1. 1996

Distribution. North East India [China].

Habit. Annual.

Remarks. Distribution in India not reported.

1142. *Microstegium vimineum* (Trin.) A. Camus, Ann. Soc. Linn. Lyon, ser. 2. 68: 201. 1921.

Andropogon vimineus Trin., Mém. Acad. Imp. Sci. St.-Pétersbourg, Sér. 6, Sci. Math. 2: 268. 1832. Type: Nepal; *Wallich* (Numer. List [Wallich] no. 8838 (LE).

Eulalia viminea (Trin.) Kuntze, Revis. Gen. Pl. 2: 775. 1891

Pollinia viminea (Trin.) Merr., Enum. Philipp. Fl. Pl. 1: 35. 1923 (“1922”)

Pollinia imberbis Nees, Syn. Pl. Glumac. (Steudel) 1: 410. 1854. Type: Nepal; Numer. List [Wallich] no. 8832 as “Bathratherum”

Microstegium willdenovianum Nees in Lindley, Nat. Syst. Bot., ed. 2 447. 1836. Type: Nepal; Herb. Willd.

Pollinia willdenoviana (Nees) Benth., J. Linn. Soc., Bot. 19: 67. 1881 (as “willdenowianum”)

Distribution. Assam, Himachal Pradesh, Meghalaya, Sikkim [Bhutan, China, Myanmar, Nepal].

Habit. Annual.

***Miscanthus* Andersson, Öfvers. Förh. Kongl. Svenska Vetensk.-Akad. 12: 165. 1855**

Lectotype. *Miscanthus japonicus* (Trin.) Andersson (*Eulalia japonica* Trin.). Designated by Hitchcock, Bull. U.S.D.A. 772: 254. 1920.

1143. *Miscanthus fuscus* (Roxb.) Benth., J. Linn. Soc., Bot. 19: 65. 1881

Sclerostachya fusca (Roxb.) A. Camus, Fl. Indo-Chine [P.H. Lecomte et al.] 7: 243. 1922

Saccharum fuscum Roxb., Fl. Ind. (Carey and Wallich ed.) 1: 241. 1920. Type: “A native of damp places over Bengal.”

Eriochrysis fusca (Roxb.) Trin., Mém. Acad. Imp. Sci. Saint-Pétersbourg, Sér. 6, Sci. Math., Seconde Pt. Sci. Nat. 2: 315. 1832

Eriochrysis attenuata Nees, Syn. Pl. Glumac. (Steudel) 1: 411. 1854

Sclerostachya milroyi Bor, Indian Forest Rec., Bot. n. s. 1(3): 85. 1938. Type: India: Assam, Sibsagar; *N.L. Bor s.n.*

Distribution. Assam, Arunachal Pradesh, Bihar, Manipur, Meghalaya, Uttar Pradesh, West Bengal [Bangladesh, China, Myanmar].

Habit. Perennial.

1144. *Miscanthus nepalensis* (Trin.) Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 104. 1889

Eulalia nepalensis Trin., Mém. Acad. Imp. Sci. St.-Pétersbourg, Sér. 6, Sci. Math. 2: 333. 1832. Type: Nepal.

Distribution. Arunachal Pradesh, Assam, Delhi, Himachal Pradesh, Meghalaya, Nagaland, Rajasthan, Sikkim, Tamil Nadu, Uttar Pradesh, Uttarakhand, West Bengal [Bhutan, China, Myanmar, Nepal].

Habit. Perennial.

1145. *Miscanthus nudipes* (Griseb.) Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 109. 1889

Erianthus nudipes Griseb., Nachr. Königl. Ges. Wiss. Georg-Augusts-Univ. 92. 1868.
Type: Himalaya occidentalis: Sikkim, alt. 9000–12000 ft.; *J.D. Hooker & Thomson Erianthus no. 10.*

Miscanthus taylorii Bor, Kew Bull. 1953: 273–274. 1953. Type: China: Xizang, Kongbo Province, Trim La, Mayër, 12200 ft.; July 9, 1938; *Ludlow, Sherriff & Taylor 5799* (BM).

Diandranthus taylorii (Bor) L. Liu, Fl. Reipubl. Popularis Sin. 10(2): 14. 1997

Distribution. Assam, Sikkim [Bhutan, China, Nepal].

Habit. Perennial.

1146. *Miscanthus wardii* Bor, Kew Bull. 1953: 273. 1953

Type. India: Assam, Di Chu Gorge, Lohit Valley; April 12, 1950; *F. Kingdon-Ward 19328* (K).

Distribution. Arunachal Pradesh (Naithani), Assam.

Habit. Perennial.

Remarks. Record for Arunachal Pradesh fide Naithani (1990).

***Mnesithea* Kunth, Rév. Gram. 1: 153. 1829**

Type. *Mnesithea laevis* (Retz.) Kunth (*Rottboellia laevis* Retz.).

1147. *Mnesithea clarkei* (Hack.) de Koning & Sosef, Blumea 31(2): 290. 1986

Rottboellia clarkei Hack., Oesterr. Bot. Z. 41: 8. 1891. Type: India: Chota Nagpur, Parasnath, alt. 2000 ft.; *C.B. Clarke 21075* (W).

Coelorachis clarkei (Hack.) Blatt. & McCann, J. Bombay Nat. Hist. Soc. 32: 33. 1927 (as “Coelorrhachis”)

Rottboellia gibbosa Hack. ex Lisboa, J. Bombay Nat. Hist. Soc. 6: 194. 1891. Type: India: Kanara; 1890; *Talbot s.n.*

Manisuris clarkei (Hack.) Bor, Rec. Bot. Surv. India 16: 357. 1953

Distribution. Bihar, Gujarat, Karnataka, Madhya Pradesh, Maharashtra, Odisha, Tamil Nadu, West Bengal.

Habit. Annual.

1148. *Mnesithea glandulosa* (Trin.) de Koning & Sosef, *Blumea* 31(2): 290. 1986

Rottboellia glandulosa Trin., Mém. Acad. Imp. Sci. St.-Petersbourg, Sér. 6, Sci. Math. 2(4): 250. 1832. Type: Java; *Trinius s.n.* (LE-TRIN-0113.01).

Manisuris glandulosa (Trin.) Kuntze, Revis. Gen. Pl. 2: 780. 1891

Coelorachis glandulosa (Trin.) Stapf ex Ridl., Fl. Malay. Penin. 5: 204. 1925

Ophiuros muricatus Steud., Syn. Pl. Glumac. 1: 360. 1855. Type: Java: “In humidis Tjikoya”; *Zollinger s.n.*

Distribution. Andaman and Nicobar Islands [Myanmar].

Habit. Perennial.

Remarks. Record for Andaman and Nicobar Islands fide Naithani (1990).

1149. *Mnesithea granularis* (L.) de Koning & Sosef, *Blumea* 31(2): 295. 1986

Cenchrus granularis L., Mant. Pl. Altera 575. 1771. Type: “Habitat in India orientali.” Lectotype: *Herb. Linn. No. 1217.12* (LINN). LT designated by Clayton & Renvoize in Polhill (ed.), Fl. Trop. E. Africa, Gramineae 3: 849. 1982.

Hackelochloa granularis (L.) Kuntze, Revis. Gen. Pl. 2: 776. 1891

Manisuris granularis (L.) Naezén, Nov. Gram. Gen. 37. 1779

Rytilix granularis (L.) Skeels, U.S.D.A. Bur. Pl. Industr. Bull. 282: 20. 1913

Manisuris porifera Hack., Oesterr. Bot. Z. 41: 48. 1891. Type: India: Sikkim, Darjeeling, alt. 3000 ft.; October 22, 1869; *C.B. Clarke 9752B* (W).

Hackelochloa porifera (Hack.) D. Rhind, Grass. Burma 77. 1945

Distribution. Andaman and Nicobar Islands, Andhra Pradesh, Bihar, Chhattisgarh, Goa, Gujarat, Jammu and Kashmir, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Rajasthan, Sikkim, Tamil Nadu, Tripura, Uttar Pradesh, West Bengal [China, Myanmar, Sri Lanka].

Habit. Annual.

1150. *Mnesithea khasiana* (Hack.) de Koning & Sosef, *Blumea* 31: 291. 1986

Rottboellia striata Nees ssp. *khasiana* Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 302. 1889. Syntypes: India: Assam, Khasia; *J.D. Hooker & Thomson s.n.* Buleschwar; *O. Kuntze s.n.*

Coelorachis khasiana (Hack.) Stapf ex Bor, Indian Forest Rec., Bot. n.s. 1(3): 101. 1938

Distribution. Assam, Nagaland, Meghalaya, Sikkim [Myanmar].

Habit. Perennial.

1151. *Mnesithea laevis* (Retz.) Kunth, Révis. Gramin. 1: 154. 1829 var. *laevis*

Rottboellia laevis Retz., Observ. Bot. (Retzius) 3: 11. 1783 (as “laevis”). Type: “Misit e Tranquebaria Cl. Koenig.”

Ophiuros laevis (Retz.) Benth., J. Linn. Soc., Bot. 19: 69. 1881 (as “Ophiurus”)

Thyridostachyum laeve (Retz.) Nees, Nomencl. Bot., ed. 2 (Steudel) 2: 685. 1841

Diperium cylindricum Desv., Opusc. Sci. Phys. Nat. 76. t. 6. f. 3. 1831. Type: “Ex indiae orientali?”

Rottboellia perforata Roxb., Pl. Coromandel 2: 43. t. 182. 1798. Type: India: grows on pasture ground; *Roxburgh s.n.* (BM).

Ophiuros perforatus (Roxb.) Trin., Mém. Acad. Imp. Sci. St.-Pétersbourg, Sér. 6, Sci. Math. 2: 246. 1832 (as “Ophiurus”)

Distribution. Andhra Pradesh, Bihar, Chhattisgarh, Himachal Pradesh, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Meghalaya, Odisha, Rajasthan, Tamil Nadu, Uttar Pradesh, Uttarakhand, West Bengal [Afghanistan, China, Myanmar, Sri Lanka].

Habit. Perennial.

1152. *Mnesithea laevis* (Retz.) Kunth var. *cochinchinensis* (Lour.) de Koning & Sosef, Blumea 31(2): 286. 1986

Phleum cochinchinense Lour., Fl. Cochinch. 1: 48. 1790. Type: “Habitat spontaneum in Cochinchina.” Vietnam; *Loureiro s.n.* (BM).

Heteropholis cochinchinensis (Lour.) Clayton, Kew Bull. 35(4): 816. 1981

Thaumastochloa cochinchinensis (Lour.) C.E. Hubb., Hooker’s Icon. Pl. 34: t. 3313-3314. 1936

Ophiuros monostachyus J. Presl in C.B. Presl, Reliq. Haenk. 1(4–5): 330. 1830 (as “Ophiurus”). Type: “Habitat in Luzonia.”

Distribution. Andhra Pradesh, Bihar (Naithani), Himachal Pradesh, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Rajasthan, Tamil Nadu, Uttar Pradesh [also in Indonesia].

Habit. Perennial.

1153. *Mnesithea striata* (Nees) de Koning & Sosef, *Blumea* 31(2): 292. 1986 var. *striata*

Rottboellia striata Nees, Syn. Pl. Glumac. (Steudel) 1: 361. 1854. Lectotype: Burma: Tavoy; October, 1827; *Gomez* (Numer. List [Wallich] no. 8877-C). LT designated by de Koning & Sosef in *Blumea* 31(2): 292. 1986.

Coelorachis striata (Nees) A. Camus, Ann. Soc. Linn. Lyon ser. 2, 68: 197. 1921

Distribution. Meghalaya, Manipur, Sikkim [Bangladesh, China, Myanmar, Nepal].

Habit. Perennial.

1154. *Mnesithea striata* (Nees) de Koning & Sosef var. *pubescens* (Hack.) S.M. Phillips & S.L. Chen, *Novon* 15 (3): 470. 2005.

Rottboellia striata Nees var. *pubescens* Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 302. 1889. Type: India: Khasia Mountains; *J.D. Hooker & Thomson s.n.*

Coelorachis striata (Nees) A. Camus var. *pubescens* (Hack.) Henrard, *Blumea* 4(3): 519. 1941

Distribution. Assam, Meghalaya, Sikkim [Bangladesh].

Habit. Perennial.

1155. *Mnesithea veldkampii* Potdar, S.P. Gaikwad, Salunkhe & S.R. Yadav, *Kew Bull.* 59(4): 629–631. f. 1. 2005

Type. India: Maharashtra, Satara District, Mawashi Plateau; November 6, 2002; *Yadav 1466* (CAL).

Distribution. Maharashtra.

Habit. Perennial.

***Ophiuros* C.F. Gaertn., *Suppl. Carp.* 3. 1805**

Lectotype. *Ophiuros corymbosus* C. F. Gaertn. (“corymbosa”), nom. illeg. (*Aegilops exaltata* L., *Ophiuros exaltatus* (L.) Kuntze) Probably designated by Clayton cf., *Revis. Handb. Fl. Ceylon* [Dassanayake] 2: 321. 1994.

1156. *Ophiuros bombaiensis* Bor, *Kew Bull.* 1951: 167–168. 1951

Type. India: Madras, Talyuppa Mysore, 2000–3200 ft.; October, 1998; *A. Meebold 10764* (K).

Distribution. Karnataka, Maharashtra, Tamil Nadu.

Habit. Annual.

1157. *Ophiuros exaltatus* (L.) Kuntze, Revis. Gen. Pl. 2: 780. 1891

Aegilops exaltata L., Mant. Pl. Altera 575. 1771. Type: "Habitat in Malabaria ad fossas agrorum." Neotype: *Herb. Linn. No. 1218.15* (LINN). LT designated by Simon in Taxon 31: 564. 1982.

Ophiuros corymbosus C.F. Gaertn., Suppl. Carp. 4. 1805 ("corymbosa"), nom. illeg. *Rottboellia corymbosa* L. f., nom. illeg. superfl. for *Aegilops exaltata* L.

Distribution. Andhra Pradesh, Assam, Bihar, Chhattisgarh, Daman and Diu, Goa, Gujarat, Karnataka, Madhya Pradesh, Maharashtra, Rajasthan, Tamil Nadu, Uttar Pradesh, Uttarakhand [China, Myanmar, Sri Lanka].

Habit. Perennial.

1158. *Ophiuros megaphyllus* Stapf ex Haines, Bot. Bihar Orissa 5: 1058. 1924

Ophiuros corymbosus sensu Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 160. 1896, p.p., non (L. f.) C. F. Gaertn., 1805

Type. India: in marshy places Tarai and Duars, probably in Purneah; *Haines s.n.*

Distribution. Assam, Meghalaya, Nagaland, West Bengal [Myanmar].

Habit. Perennial.

Remarks. Records for Meghalaya and Nagaland fide Naithani.

***Parahyparrhenia* A. Camus, Bull. Mus. Natl. Hist. Nat. Ser. 2, 22: 404. 1950**

Type. *Parahyparrhenia jaergeriana* A. Camus.

1159. *Parahyparrhenia bellariensis* (Hack.) Clayton, Kew Bull. 27(3): 448. 1972

Andropogon bellariensis Hack., Flora 68: 123. 1885. Type: India: Anantapur District, on Gooty Fort Hill, Bellari; *Wight 2321* (K).

Heteropogon bellariensis (Hack.) C.E.C. Fisch., Fl. Madras 3(10): 1744. 1934

Distribution. Andhra Pradesh, Karnataka.

Habit. Perennial.

***Phacelurus* Griseb. Spic. Fl. Rumel. 2(5/6): 423. 1846**

Type. *Phacelurus digitatus* (Sm.) Griseb. (*Rottboellia digitata* Sm.).

1160. *Phacelurus speciosus* (Steud.) C.E. Hubb., Bull. Misc. Inform. Kew 1928: 35. 1928

Andropogon speciosus Steud., Syn. Pl. Glumac. 1: 375. 1854. Type: Nepal; *Royle Herb. no. 263* (B).

Pseudophacelurus speciosus (Steud.) A. Camus, Bull. Mus. Natl. Hist. Nat. 27: 370. 1921

Rottboellia speciosa (Steud.) Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 282. 1889

Vossia speciosa (Steud.) Benth., J. Linn. Soc., Bot. 19: 70. 1881 [combination is not made here]

Andropogon corollatus Steud., Syn. Pl. Glumac. 1: 369. 1854. Type: Nepal; *Royle Herb. no. 264*

Ischaemum corollatum (Steud.) Will. Watson, Bot. Himalayan Distr. N. W. Prov. 392. 1882

Ischaemum robustum Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 139. 1896. Type: Northwest Himalaya: Pauni, Bursahi, alt. 7000 ft.; *Brandeis s.n.*

Ischaemum speciosum Nees ex Steud., Syn. Pl. Glumac. 1: 375. 1854, nom. inval., as “A. Speciosus Nees (mpt. sub. Ischaemum).”

Distribution. Uttar Pradesh, Uttarakhand [Afghanistan, Nepal, Pakistan].

Habit. Perennial.

1161. *Phacelurus zea* (C.B. Clarke) Clayton, Kew Bull. 33(2): 177. 1978

Rottboellia zea C.B. Clarke, J. Linn. Soc., Bot. 25: 86–87. t. 35. 1889. Type: India: Muneypore; *C.B. Clarke 41980* (K).

Thyrsia zea (C.B. Clarke) Stapf, Hooker’s Icon. Pl. 31: sub t. 3078. 1922

Distribution. Manipur, West Bengal [Bhutan, China, Myanmar, Nepal].

Habit. Perennial.

***Pogonachne* Bor, Kew Bull. 1949: 176. 1949**

Type. *Pogonachne racemosa* Bor.

1162. *Pogonachne racemosa* Bor, Kew Bull. 1949: 176. 1949

Type. India: Matheran, Western Ghats; October 25, 1896; *Woodrow s.n.* (K).

Distribution. Bihar, Maharashtra.

Habit. Annual.

***Pogonatherum* P. Beauv., Ess. Agrostogr. 56, 176. 1812**

Type. *Pogonatherum saccharoideum* P. Beauv., nom. illeg. (*Saccharum paniceum* Lam., *Pogonatherum paniceum* (Lam.) Hack.).

1163. *Pogonatherum crinitum* (Thunb.) Kunth, Enum. Pl. (Kunth) 1: 478. 1833

Andropogon crinitus Thunb., Fl. Jap. (Thunberg) 40. t. 7. 1784 (as “crinitum”). Type: Japan

Homoplitis crinita (Thunb.) Trin., Fund. Agrost. (Trinius) 166. 1820

Ischaemum crinitum (Thunb.) Trin., Mém. Acad. Imp. Sci. St.-Petersbourg, Sér. 6, Sci. Math. 2: 298. 1832

Andropogon monandrus Roxb., Fl. Ind. (Carey and Wallich ed.) 1: 264. 1820. Type: India: “A native of Mountainous countries.”

Pollinia monandra Spreng., Syst. Veg. (ed. 16) [Sprengel] 1: 288. 1824 (“1825”). Type: India orientalis

Distribution. Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Chhattisgarh, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Meghalaya, Mizoram, Nagaland, Odisha, Sikkim, Tamil Nadu, Tripura, Uttar Pradesh, Uttarakhand, West Bengal [Afghanistan, Bhutan, China, Myanmar, Nepal, Pakistan, Sri Lanka].

Habit. Perennial.

1164. *Pogonatherum paniceum* (Lam.) Hack., Allg. Bot. Z. Syst. 12: 178. 1906

Saccharum paniceum Lam., Encycl. (Lamarck) 1: 595. 40. f. 1. 1785. Type: “Cette plante croit dans les Indes orientales, & nous a été communiqué par M. Sonnerat.” East Indies; *Sonnerat s.n.* (P).

Pogonatherum santapaui Sur, J. Bombay Nat. Hist. Soc. 73(1): 190. 1976. Type: India: Uttar Pradesh, Garhwal, alt. 2300 ft.; February 26, 1960; *J.N. Vohra 11248*

Pogonatherum polystachyum Roem. & Schult., Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 497. 1817, nom. illeg. & superfl. for *Saccharum paniceum*

Pollinia polystachys Spreng., Syst. Veg. (ed. 16) [Sprengel] 1: 288. 1825 nom. illeg. & superfl. for *Saccharum paniceum*

Perotis polystachya Willd., Sp. Pl., ed. 4 [Willdenow] 1: 324. 1797, nom. illeg. & superfl. for *S. paniceum*

Pogonatherum saccharoideum P. Beauv., Ess. Agrostogr. 176, 177. 1812, nom. illeg. & superfl. for *Saccharum paniceum*

Distribution. Andaman and Nicobar Islands, Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Himachal Pradesh, Jammu and Kashmir, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Nagaland, Odisha, Punjab, Sikkim, Tamil Nadu, Uttar Pradesh, West Bengal [Afghanistan, Bhutan, China, Myanmar, Nepal, Pakistan, Sri Lanka].

Habit. Perennial.

1165. *Pogonatherum rufobarbatum* Griff., Not. Pl. Asiat. 3: 81. 1851

Type. India: Assam, in aquois, Moosmai; October 18, 1835; *It. Ass.* 159.

Distribution. Andhra Pradesh, Assam, Arunachal Pradesh, Bihar, Chhattisgarh, Himachal Pradesh, Karnataka, Kerala, Madhya Pradesh, Meghalaya, Odisha, Tamil Nadu, Uttarakhand, West Bengal.

Habit. Perennial.

Polytrias Hack. (1887), in Engler & Prantl, Nat. Pflanzenfam. 2(2): 24. 1887

Type. *Polytrias praemorsa* (Nees) Hack. (*Pollinia praemorsa* Nees).

1166. *Polytrias indica* (Houtt.) Veldkamp, Blumea 36(1): 180–181. 1991.

Phleum indicum Houtt., Nat. Hist. 2(13): Aanwyz. Plaat. [1], 198, pl. 90, f. 2. 1782. (13 May 1782). Type: Koenig s.n., Indonesia, Java

Ischaemum indicum (Houtt.) Merr., J. Arnold Arbor. 19(4): 320. 1938 var. *indicum*

Andropogon diversiflorus Steud., Syn. Pl. Glumac. 1(4–5): 370. 1854. Type: Indonesia: Java; “*Andropogon* ? no. 539, p. 99, Zoll. Moritz.”

Eulalia amaura Ohwi, Bull. Tokyo Sci. Mus. 18: 2. 1947, nom. superfl. & illeg. for *Andropogon diversiflorus*

Polytrias amaura Kuntze Revis. Gen. Pl. 2: 788. 1891, nom. superfl. & illeg. for *Andropogon diversiflorus*

Andropogon amaurus Buse, Pl. Jungh. 360. 1854, nom. superfl. & illeg. for *Andropogon diversiflorus*. Type: Indonesia: Java; Zollinger 539 Herb. Acad. L. Bata.

Distribution. West Bengal [also in Indonesia].

Habit. Annual.

Remarks. Record for West Bengal fide Naithani (1990).

***Pseudanthistiria* (Hack.) Hook. f., Fl. Brit. India (J.D. Hooker). 7 (pt. 21): 219. 1896**

Andropogon sect. *Pseudanthistiria* Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 400. 1889.

Lectotype. *Pseudanthistiria heteroclita* (Roxb.) Hook. f. (*Anthistiria heteroclita* Roxb.). LT designated by B.P. Uniyal in Taxon 33: 501. 1984.

1167. *Pseudanthistiria burmanica* Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 220. 1896

Type. Burma: Pegu; *Kurz s.n.*

Distribution. Kerala [Myanmar].

Habit. Annual.

1168. *Pseudanthistiria heteroclita* (Roxb.) Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 219. 1896

Anthistiria heteroclita Roxb., Fl. Ind. (Carey and Wallich ed.) 1: 253–254. 1820. Type: India: “A native of newly made pasture land in the vicinity of Calcutta.”

Andropogon heteroclitus (Roxb.) Nees, Fl. Afr. Austral. Ill. 115. 1841

Pseudanthistiria hispida Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 219. 1896. Syn-types: India: the Concan; *J.E. Stocks s.n.*, *J.S. Law s.n.*, *Dalzell s.n.* Central province, Khandwa; *Duthie s.n.*

Pseudanthistiria intermedia Birari & D’cruz, J. Bombay Nat. Hist. Soc. 73: 192. f. 1–5. 1976. Type: India: Maharashtra, Khandesh, Satpura Range; November 17, 1968; *S.R. Birari I-681BC* (AHMA).

Distribution. Andhra Pradesh, Bihar, Daman & Diu, Goa, Gujarat, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Tamil Nadu, West Bengal.

Habit. Annual.

1169. *Pseudanthistiria umbellata* (Hack.) Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 220. 1896

Andropogon umbellatus Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 401. 1889. Type: Sri Lanka; *Thwaites 963* (W).

Distribution. Andhra Pradesh, Karnataka, Kerala, Maharashtra, Odisha, Tamil Nadu [Sri Lanka].

Habit. Annual.

***Pseudodichanthium* Bor, Indian Forester 66: 271. 1940**

Type. *Pseudodichanthium serrafulcoides* (Cooke & Stapf) Bor (*Andropogon serrafulcoides* Cooke & Stapf).

1170. *Pseudodichanthium serrafulcoides* (Cooke & Stapf) Bor, Indian Forester 66: 272. 1940

Andropogon serrafulcoides Cooke & Stapf, Bull. Misc. Inform. Kew 1908: 450. 1908.

Type: India: Western Ghats, Sakarpattar, near Lanauli; *Woodrow s.n.*

Dichanthium serrafulcoides (Cooke & Stapf) Blatt. & McCann., J. Bombay Nat. Hist. Soc. 32: 426. 1928

Andropogon cookei Stapf ex Woodrow, J. Bombay Nat. Hist. Soc. 13: 438. 1901, nom. nud.

Distribution. Maharashtra.

Habit. Annual.

***Pseudosorghum* A. Camus, Bull. Mus. Natl. Hist. Nat. 26(7): 662. 1920–1921**

Lectotype. *Pseudosorghum fasciculare* (Roxb.) A. Camus (*Andropogon fascicularis* Roxb.).

1171. *Pseudosorghum fasciculare* (Roxb.) A. Camus, Bull. Mus. Natl. Hist. Nat. 26(7): 662. 1920–1921

Andropogon fascicularis Roxb., Fl. Ind. (Carey and Wallich ed.) 1: 269. 1820. Type: India: “A native of Mountains.”

Sorghum fasciculare (Roxb.) Haines, Bot. Bihar Orissa 5: 1034. 1924

Andropogon gangeticus Hack. ex Duthie, Fodder Grasses of North. India 34. 1988

Sorghum gangeticum (Hack. ex Duthie) Kunze, Revis. Gen. Pl. 2: 791. 1891

Andropogon nitidulus Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 199. 1896. Type: NorthWest Himalaya: on the Sewalik Hills; and Chanda in the Central Provinces; *Duthie s.n.*

Andropogon tonkinensis Balansa, J. Bot. (Morot) 4(6): 112. 1890. Type: Vietnam: Tonkin, Phuong-Lam, Sur les Collines incultes; January 13, 1887; *Balansa 1770* (L).

Distribution. Andhra Pradesh, Assam, Bihar, Chhattisgarh, Karnataka, Kerala, Madhya Pradesh, Nagaland, Odisha, Tamil Nadu, Uttar Pradesh, West Bengal [China, Myanmar, Nepal].

Habit. Annual.

***Rottboellia* L. f., Suppl. Pl. 13 (*Rottböllia*), 114 (“*Rottbölla*”). 1782 (“1781”), nom. cons.**

Type. *Rottboellia exaltata* L. f., nom. illeg. (non (L.) Naezen, 1779) (typ. cons.).

1172. *Rottboellia cochinchinensis* (Lour.) Clayton, Kew Bull. 35(4): 817. 1981

Stegosia cochinchinensis Lour., Fl. Cochinch. 1: 51. 1790. Type: Vietnam: “Nullibi eam vidi praeterquam in Cochinchina.”

Rottboellia exaltata L.f., Suppl. Pl. 114. 1782 (“1781”), non (L.) Naezen, 1779. Type: “Habitat in indiis”; *Thunberg s.n.* (LINN).

Rottboellia exaltata L.f. var. *robusta* Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 156. 1896. Syntypes: India: Malabar, Palamocotta; *Wight* 3286, Numer. List [Wallich] no. 8875E. Poone; *Woodrow s.n.*

Distribution. Andaman and Nicobar Islands, Andhra Pradesh, Assam, Bihar, Gujarat, Himachal Pradesh, Jammu and Kashmir, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Meghalaya, Odisha, Rajasthan, Sikkim, Tamil Nadu, Tripura, Uttar Pradesh, West Bengal [China, Pakistan].

Habit. Annual.

1173. *Rottboellia goalparensis* Bor, Indian Forest Rec., Bot. n. s. 1(3): 100. 1938

Robynsiochloa goalparensis (Bor) Clayton, Kew Bull. 35(4): 817. 1981

Type. India: Assam, Goalpara District, Kochugaon; *Das* 10471 (K).

Distribution. Assam.

Habit. Annual.

***Saccharum* L., Sp. Pl. 1: 54. 1753**

Lectotype. *Saccharum officinarum* L. (“officinaram”) LT designated by Nash, N. Amer. Fl. 17: 89. 30 Jun 1909; affirmed by Hitchcock, Bull. U.S.D.A. 772: 255. 1920.

1174. *Saccharum fallax* Balansa, J. Bot. (Morot) 4(4): 80. 1890

Narenga fallax (Balansa) Bor, Kew Bull. 1948: 162. 1948

Erianthus chrysothrix Hack., Oesterr. Bot. Z. 41: 6. 1891. Syntypes: India: Naga Hills ad Piffima, alt. 2000 ft.; *C.B. Clarke* 40913. Khasia Mountains. ad Nungklas; *C.B. Clarke* 40209. India: Shillong, alt. 4000 ft.; *C.B. Clarke* 44484. India; *C.B. Clarke* 44484

Type. Vietnam: Hills and Valleys of Tu-Phap; *Balansa s.n.*

Distribution. Assam, Bihar, Manipur, Meghalaya, Nagaland, Tripura [China, Myanmar].

Habit. Perennial.

1175. *Saccharum filifolium* Steud., Syn. Pl. Glumac. 1: 409. 1854

Erianthus filifolius (Steud.) Nees ex Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 146. 1889

Erianthus macratherus Pilg., Notizbl. Bot. Gart. Berlin-Dahlem 14: 347. 1939. Type: Sikkim, Nanga-Parbat, Gebiet, Indus-Tal, Drang, Jalipur, 4000 ft.; May 22, 1937; *C. Troll* 7170

Saccharum macratherum (Pilg.) Ahmad & Stewart, Grasses of West Pakistan 1: 79. 1958 (as “macrantherus”)

Type. Nepal.

Distribution. Sikkim [Afghanistan, Nepal, Pakistan].

Habit. Perennial.

1176. *Saccharum griffithii* Munro ex Boiss., Fl. Orient. (Boisser) 5: 453. 1884

Erianthus griffithii (Munro ex Boiss.) Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 122. 1896

Saccharum ciliare Andersson var. *griffithii* (Munro ex Boiss.) Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 119. 1889

Type. Afghanistan: Kuram District, on the arid shingle plains and borders of fields, up to 6000 ft. “Hab. ad Schah Bilawul Afghanistaniae”; *Griffith exs.* 507.

Distribution. Punjab [Afghanistan, Pakistan].

Habit. Perennial.

**1177. *Saccharum longisetosum* (T. Anderson) V. Naray., Fl. Assam 5: 461. 1940
var. *longisetosum***

Erianthus longisetosus T. Anderson, Ofvers. Forh. Kongl. Svenska Vetensk.-Akad. 163. 1855.
Syntypes: India: Sillet. India; *F. de Silva s.n.* India; Numer. List [Wallich] no. 8846

Distribution. Assam, Meghalaya, West Bengal [Bangladesh, Bhutan, China, Myanmar].
Habit. Perennial.

**1178. *Saccharum longisetosum* (T. Anderson) V. Naray. var. *hookeri* (Hack.) Bor,
Grasses Burma, Ceylon, India & Pakistan 212. 1960**

Erianthus hookeri Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 142. 1889. Type: India: Sikkim; *J.D. Hooker Erianthus no. 15*

Saccharum hookeri (Hack.) V. Naray., Fl. Assam 5: 461. 1940

Erianthus longisetosus T. Anderson var. *hookeri* (Hack.) Bor, Grasses Burma, Ceylon, India and Pakistan 151. 1960

Distribution. Assam, Manipur, Meghalaya, Nagaland, Sikkim, Uttar Pradesh, West Bengal [Bhutan].
Habit. Perennial.

1179. *Saccharum narenga* (Nees) Wall. ex Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 119. 1889

Eriochrysis narenga Nees, Syn. Pl. Glumac. (Steudel) 1: 411. 1854. Type: India; Numer. List [Wallich] no. 8856 B (K).

Eriochrysis porphyrocoma Hance, J. Bot. 14(166): 294. 1876. Type: China: Guangdong, "secus amnem Lien chau"; October, 1875; *Galbraith* 19285

Narenga porphyrocoma (Hance) Bor, Indian Forester 66(5): 268. 1940

Distribution. Assam, Bihar, Chhattisgarh, Jharkhand, Madhya Pradesh, Manipur, Meghalaya, Tamil Nadu, Uttar Pradesh, West Bengal [Bangladesh, China, Myanmar, Nepal, Pakistan].
Habit. Perennial.

1180. *Saccharum officinarum* L., Sp. Pl. 1: 54. 1753

Lectotype. "Arundo saccharifera C.B." in Sloane, Voy. Jamaica, 1: 108, t. 66, 1707. Typotype: Herb. Sloane 2: 14 (BM-SL). LT designated by Reveal et al. in Taxon 38: 96. 1989.

Distribution. Andhra Pradesh, Assam, Bihar, Delhi, Goa, Gujarat, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Rajasthan, Tamil Nadu, Tripura, Uttar Pradesh, West Bengal [Bangladesh, China, Pakistan, Sri Lanka]. Cultivated.

Habit. Perennial.

1181. *Saccharum rufipilum* Steud., Syn. Pl. Glumac. 1: 409. 1854

Erianthus rufipilus (Steud.) Griseb., Nachr. Ges. Wiss. Gottingen, Math.-Phys. Kl. 93. 1868

Erianthus pallens Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 145. 1889. Type: India: Himalayas; *J.D. Hooker & Thomson s.n.* (B).

Saccharum versicolor Steud., Syn. Pl. Glumac. 1: 409. 1854. Type: India

Erianthus versicolor (Steud.) Hack. var. *pallens* (Hack.) Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 124. 1896

Erianthus fulvus Nees ex Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 147. 1889, non (R. Br.) Kunth, 1829

Type. Nepal; Numer. List [Wallich] no. 8849.

Distribution. Bihar, Jammu and Kashmir, Meghalaya, Sikkim, Uttarakhand [Bhutan, China, Myanmar, Nepal, Pakistan].

Habit. Perennial.

1182. *Saccharum sikkimense* (Hook. f.) V. Naray., Fl. Assam 5: 462. 1940 (as “sikkimensis”)

Erianthus sikkimensis Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 123. 1896. Type: India: Sikkim Himalaya, Lachen Valley, alt. 600 ft.; *J.D. Hooker s.n.* (K).

Distribution. Sikkim [Bhutan].

Habit. Perennial.

1183. *Saccharum sinense* Roxb., Pl. Coromandel 3: 26. t. 232. 1815

Saccharum barberi Jesweit, Arch. Suikerindustr. Ned. Ned.-Indie 12: 396. 1925. Type: India: Chunnee-riet.

Type. Introduced into Botanical Garden of Calcutta from China in 1796.

Distribution. West Bengal [Bangladesh, China]. Cultivated.

Habit. Perennial.

1184. *Saccharum spontaneum* L., Mant. Pl. Altera 183. 1771

Imperata spontanea (L.) P. Beauv., Ess. Agrostogr. 8. 165. 1812

Saccharum canaliculatum Roxb., Fl. Ind. (Carey and Wallich ed.) 1: 251. 1820. Type: "A most beautiful stately species, a native of Bengal in moist thickets."

Saccharum insulare Brongn., Voy. Monde, Phan. 2(2): 99. 1831. Type: "Sauvage dans les lieux frais près des ruisseaux de l'île Oualan, l'une des îles Carolines" Caroline Islands: Kusaie (Kosrae, Oualan); 1825; *Lesson s.n.* (P).

Saccharum propinquum Steud., Syn. Pl. Glumac. 1: 406. 1854. Type: "Ex Hrbo. Prisiensi. Coromandel."

Saccharum semidecumbens Roxb., Fl. Ind. (Carey and Wallich ed.) 1: 241. 1820. Type: "A native of Bengal, where it delights in low wet places."

Type. "Habitat in Malabariae aquosis. Koenig." Lectotype: Herb. Linn. No. 77.1 (LINN). LT designated by Cope in Nasir and Ali (ed.), Fl. Pakistan 143: 263. 1982.

Distribution. Andhra Pradesh, Assam, Bihar, Chhattisgarh, Delhi, Goa, Gujarat, Himachal Pradesh, Jharkhand, Jammu and Kashmir, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Meghalaya, Nagaland, Odisha, Punjab, Rajasthan, Tamil Nadu, Tripura, Uttar Pradesh, West Bengal [Afghanistan, Bhutan, China, Myanmar, Pakistan, Sri Lanka].

Habit. Perennial.

1185. *Saccharum wardii* (Bor) Bor ex Cope, Kew Bull. 35:702. 1980

Erianthus wardii Bor, Kew Bull. 1954: 498. 1954. Type: Burma: North Triangle, Kainjaw, alt. 3200 ft.; December 2, 1953; *F. Kingdon-Ward* 21666 (K).

Distribution. Arunachal Pradesh [Myanmar].

Habit. Perennial.

Remarks. Record for India fide Naithani.

1186. *Saccharum williamsii* (Bor) Bor ex Cope, Kew Bull. 35:703. 1980

Erianthus williamsii Bor, Kew Bull. 12(3): 413. 1958. Type Nepal: NW of Gurjakhani, 9000 ft.; July 30, 1954; *Polunin, Sykes & Williams* 3670 (BM).

Distribution. India [Nepal (Naithani)].

Habit. Perennial.

Remarks. Distribution in India not reported.

Sarga Ewart, *Proc. Roy. Soc. Victoria* 23(2): 296. 1911

Type. *Sarga stipoidea* Ewart & Jean White.

1187. *Sarga leiocladus* (Hack.) Spangler, *Austral. Syst. Bot.* 16(3): 290. 2003 (as “leiocladum”)

Andropogon australis Spreng. ssp. *leiocladus* Hack., *Monogr. Phan.* [A. DC. & C. DC.] 6: 524. 1889. Type: Australia: New South Wales, Central Coast, Port Jackson; February, 1825; *C. Gaudichaud s.n.* (P).

Sorghum leiocladus (Hack.) C.E. Hubb., *Hooker's Icon. Pl.* 34: t. 3364. 1938 (as “leiocladum”)

Distribution. India [also in Australia]. Native to eastern Australia.

Habit. Perennial.

Remarks. Distribution in India not reported. It is possible that this report is erroneous.

***Schizachyrium* Nees, *Fl. Bras. Enum. Pl.* 331. 1829**

Lectotype. *Schizachyrium condensatum* (Kunth) Nees (*Andropogon condensatus* Kunth). LT designated by Pfeiffer, *Nomencl. Bot.* 2: 1077. 1874.

1188. *Schizachyrium brevifolium* (Sw.) Nees ex Buse, *Pl. Jungh.* 359. 1854

Andropogon brevifolius Sw., *Prodr.* (Swartz) 26. 1788 (as “brevifolium”). Type: “Jamaica.” Lectotype: West Indies: Jamaica; *O.P. Swartz s.n.* (M). LT designated by Hitchcock in *Contr. U.S. Natl. Herb.* 12: 143. 1908.

Pollinia brevifolia (Sw.) Spreng., *Pl. Min. Cogn. Pug.* 2: 13. 1815

Andropogon floridus Trin., *Mém. Acad. Imp. Sci. Saint-Petersbourg, Sér. 6, Sci. Math., Seconde Pt. Sci. Nat.* 2: 265. 1832

Andropogon obtusifolius Poir., *Encycl. (Lamarck) Suppl.* 1: 583. 1810. Type: “Cette plante a été recueillie par M. Lendru a Porto Ricco.” Puerto Rico; *M. Lendru s.n.* (P).

Andropogon parviflorus Roxb., *Fl. Ind.* (Carey and Wallich ed.) 1: 277. 1820. Type: “A very beautiful most delicate species, a native of pasture land up amongst the Circar Mountains and also of the Mountains themselves.”

Pollinia vaginata Spreng., *Pl. Min. Cogn. Pug.* 2: 11. 1815. Type: “Habitat in Bengalia.”

Andropogon debilis Kunth, *Enum. Pl.* [Kunth] 1: 488. 1833. Type: Mexico.

Andropogon tenellus J. Presl in C. Presl., *Reliq. Haenk.* 1(4–5): 335. 1830, nom. later hom. non Roxb., 1820. Type: “Hab. in Mexico”; *Haenke s.n.* (PR).

Distribution. Andhra Pradesh, Assam, Bihar, Chhattisgarh, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Nagaland, Odisha, Rajasthan, Tamil Nadu, Tripura, Uttar Pradesh, Uttarakhand, West Bengal [Bangladesh, Bhutan, China, Myanmar, Nepal].

Habit. Annual.

1189. *Schizachyrium delavayi* (Hack.) Bor, Indian Forest Rec., Bot. new ser. 1(3): 95. 1938

Andropogon delavayi Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 404–405. 1889. Syntypes: China: Yunnan, Kimi-se, ad pedes Hee-schan-man prope Koken; *J.M. Delavay* 1800; China: Yunnan, in pratis ad Ki-pin-Kay prope Tali; *J.M. Delavay* 2242 (P).

Eremopogon delavayi (Hack.) A. Camus, Ann. Soc. Linn. Lyon sér. 2. 68: 208. 1921

Andropogon bootanensis Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 166. 1896.

Type: Bhutan Himalaya: Tassangsee, alt., 5000–6000 ft.; *Griffith s.n.*

Schizachyrium bootanense (Hook. f.) A. Camus, Ann. Soc. Linn. Lyon sér. 2. 70: 90. 1923

Distribution. Assam, Manipur, Nagaland, Sikkim [Bhutan, China, Myanmar, Nepal].

Habit. Perennial.

1190. *Schizachyrium exile* (Hochst.) Pilg., Bot. Jahrb. Syst. 54: 284. 1917

Andropogon exilis Hochst., Flora 27: 241. 1844. Syntypes: Sudan: “Ad latus, orientale montis Cordofani Arasch-Cool locis humidis habitat”; *Kotschy* 370 (K). Ethiopia: ad latus orientale montis Cordofani Arasch-Cool locis humidis habitat; 1837–1838; *Kotschy* 19 (L).

Distribution. Andhra Pradesh, Bihar, Chhattisgarh, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Meghalaya, Odisha, Rajasthan, Tamil Nadu, Uttar Pradesh, West Bengal [China].

Habit. Annual.

Remarks. Records for Karnataka, Madhya Pradesh and Tamil Nadu fide Naithani.

1191. *Schizachyrium impressum* (Hack.) A. Camus, Ann. Soc. Linn. Lyon sér. 2, 70: 91. 1923

Andropogon impressus Hack., Oesterr. Bot. Z. 41: 49. 1891. Type: India: Kashmir, Kishtwar, 4000 ft.; *C.B. Clarke* 31433 (W).

Distribution. Jammu and Kashmir [Pakistan].

Habit. Perennial.

1192. *Schizachyrium sanguineum* (Retz.) Alston in Trimen, Handb. Fl. Ceylon 6(Suppl.): 334. 1931

Rottboellia sanguinea Retz., Observ. Bot. (Retzius) 3: 25. 1783. Type: “Ramulum misit Cl. Bladh e China.” China; *Bladh s.n.* (LD).

Andropogon sanguineus (Retz.) Merr., Philipp. J. Sci., C 12: 101. 1917

Thelepogon sanguineus (Retz.) Spreng., Syst. Veg. (ed. 16) [Sprengel] 1: 299. 1824 (“1825”)

Schizachyrium semiberbe Nees, Fl. Bras. Enum. Pl. 2(1): 336. 1829. Type: “Habitat in Brasilia australiori”; *Sellow s.n.* (B).

Andropogon semiberbis (Nees) Kunth, Enum. Pl. [Kunth] 1: 489. 1833

Andropogon semiberbis (Nees) Kunth var. *leptostachyus* (Benth.) Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 370. 1889

Andropogon leptostachyus Benth., Niger Fl. [W. J. Hooker]. 571. 1849. Type: “On the Quarra; Vogel.” Nigeria: River Niger [Quorra]; *Vogel s.n.* (K)

Andropogon pseudograya Steud., Syn. Pl. Glumac. 1: 365. 1854. Type: Sri Lanka; *Arnott s.n.*

Schizachyrium hirtiflorum Nees, Fl. Bras. Enum. Pl. 2(1): 334. 1829. Type: “Habitat in Brasilia australiori.” Brazil; *Sellow s.n.* (B).

Andropogon hirtiflorus (Nees) Kunth, Révis. Gramin. 2: 571. 1832

Distribution. Meghalaya [China, Myanmar, Sri Lanka].

Habit. Perennial.

1193. *Schizachyrium sudhanshui* N.P. Singh, J. Indian Bot. Soc. 60(3–4): 359. 1981

Type. “lecti ad Raichur-Hyderabad via 19th km ad alt. C. 400 m in dist. Raichur, ditionae Karnataka dei 15th Novembris anni 1975.” Holotype: *Singh 141725A* (CAL); isotypes: *Singh 141725B–D* (BSI).

Distribution. Karnataka.

Habit. Annual.

1194. *Schizachyrium villosum* (Poir.) Veldkamp, Blumea 31: 306. 1986

Rottboellia villosa Poir., Encycl. (Lamarck) 6: 313. 1804 (as “Rottbolla”). Type: “Cette plante a été recueillie dans les Indes par Commerson (V.S. in Herb. Juss.).” *Commerson s.n.* (P.-JU).

Distribution. India.

Habit. Perennial.

Remarks. Distribution in India not reported.

***Sehima* Forssk., Fl. Aegypt.-Arab. 178. 1775**

Type. *Sehima ischaemiides* Forssk.

1195. *Sehima ischaemoides* Forssk., Fl. Aegypt.-Arab. 178. 1775

Andropogon lineatus Steud., Syn. Pl. Glumac. 1: 369. 1854

Andropogon rhyncophorus Stapf, Mém. Soc. Bot. France. 8: 101. 1908. Type: Central African Republic: Dar-el-Hadjer; *Chevalier* 9797 (K).

Sehima inscalptum Hochst., Flora 27: 247. 1844. Type: “Ad agrorum margines locis siccioribus prope Gapdian in Abyssiniae provincia Tigre lectum est. Septembri floriferum.” Ethiopia; September 24, 1839; *Schimper* 739 (K, MO).

Andropogon inscalptus (Hochst.) Andersson, Beitr. Fl. Aethiop. 310. 1867

Ischaemum inscalptum (Hochst.) A. Rich., Tent. Fl. Abyss. 2: 472. 1850–1851.

Sehima kotschyi Hochst., Flora 27: 247. 1844. Type: “Ad radices montis Cordofani Arasch-Cool in fissuris rupium graniticarum”; Sudan: Kordofan, Arashkol; *Kotschy* 373

Andropogon sehima Steud., Syn. Pl. Glumac. 1: 369. 1854, nom. superfl. & illeg. for *Sehima ischaemoides*

Type. “Yeman in montibus ad Hadle.” Yemen: Al Hadiyah, in montibus ad Hadie; 1763; *Forsska s.n.* (C).

Distribution. Gujarat, Karnataka, Maharashtra, Tamil Nadu [Pakistan].

Habit. Annual.

1196. *Sehima nervosa* (Rottler) Stapf, Fl. Trop. Afr. [Oliver et al.] 9(1): 36. 1917 (as “nervosum”)

Andropogon nervosus Rottler, Ges. Naturf. Freunde Berlin Neue Schriften 4: 218. 1803.

Type: India: Madras; *Rottler s.n.* (K).

Hologamium nervosum (Rottler) Nees, Edinburgh New Philos. J. 18: 185. 1835

Ischaemum nervosum (Rottler) Thwaites, Enum. Pl. Zeyl. (Thwaites). 365. 1864

Andropogon striatus Klein ex Willd., Sp. Pl., ed. 4 [Willdenow] 4(1): 903. 1806. Type: “Habitat in Malabar.”

Ischaemum laxum R. Br., Prodr. Fl. Nov. Holland. 205. 1810. Type: Australia: “littora Novae Hollandiae intra tropicum.”

Ischaemum macrostachyum A. Rich., Tent. Fl. Abyss. 2: 472. 1850–1851. Type: “Crescit in montibus versus fluvium Tacazze, mense Augusto (Schimper)”

Andropogon macrostachyus (A. Rich.) Andersson, Beitr. Fl. Aethiop. 310. 1867

Sehima macrostachyum Hochst. ex Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 245. 1889, invalid, pro syn.

Andropogon tacazensis Steud., Syn. Pl. Glumac. 1: 369. 1854, nom. superfl. & illeg.

Distribution. Andhra Pradesh, Bihar, Chhattisgarh, Deccan, Gujarat, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Odisha, Rajasthan, Tamil Nadu [China, Myanmar, Pakistan, Sri Lanka].

Habit. Perennial.

1197. *Sehima notata* (Hack.) A. Camus, Bull. Mus. Hist. Nat. (Paris) 27: 373. 1921 (as “notatum”)

Ischaemum notatum Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 246. 1889. Type: India: Kamaon District; 5100–7300 ft.; *J.F. Duthie* 5057. Prope Dunagiri supra Duarahat ad 6600 ft.

Distribution. Bihar, Himachal Pradesh, Maharashtra, Uttar Pradesh, Uttarakhand.

Habit. Perennial.

1198. *Sehima sulcata* (Hack.) A. Camus, Bull. Mus. Hist. Nat. (Paris) 27: 373. 1921 (as “sulcatum”)

Ischaemum sulcatum Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 248. 1889. Type: “India orientalis, prope Narsingpur province, Centralis alt. 1000 ft.”; *O. Kuntze in h. prop. s.n.* Sholapur province, Bombay Stead in h. m.”

Distribution. Andhra Pradesh, Bihar, Gujarat, Karnataka, Madhya Pradesh, Maharashtra, Rajasthan, Tamil Nadu [Myanmar].

Habit. Perennial.

***Sorghum* Moench, Methodus (Moench) 207. 1794, nom. cons.**

Type. *Sorghum bicolor* (L.) Moench (*Holcus bicolor* L.).

1199. *Sorghum arundinaceum* (Desv.) Stapf, Fl. Trop. Afr. [Oliver et al.] 9(1): 114. 1917

Rhaphis arundinacea Desv., Opusc. Sci. Phys. Nat. 69. 1831 (as “arundinaceus”). Type: ‘Habitat in Guinea.’ (West Tropical Africa).

Andropogon stapfii Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 184. 1896. Type: Tinnevely, Palamcottah; *Wight s.n.*

Sorghum stapfii (Hook. f.) C.E.C. Fisch., Fl. Madras 3(9): 1735. 1931

Andropogon verticilliflorus Steud., Syn. Pl. Glumac. 1: 393. 1854. Type: “An praecedentis var. Ins. Borbon.”

Sorghum verticilliflorum (Steud.) Stapf, Fl. Trop. Afr. [Oliver et al.] 9(1): 116. 1917

Sorghum pugionifolium Snowden, J. Linn. Soc., Bot. 55: 240. 1955. Type: India: Punjab, Gurgaon; October 24, 1886; *J.R. Drummond 21901*

Andropogon arundinaceus Willd., Sp. Pl., ed. 4 [Willdenow] 4: 906. 1806, nom. illeg. later hom., non P.J. Bergius, 1767. Type: Guinea (West Tropical Africa); *P.E. Isert s.n.* (B-W).

Distribution. Bihar, Maharashtra, Punjab, Tamil Nadu [Pakistan].

Habit. Annual or Perennial.

1200. *Sorghum bicolor* (L.) Moench, Methodus (Moench) 207. 1794

Holcus bicolor L., Mant. Pl. Altera 301. 1771. Type: “Habitat in Persia. D. Lerche. H. U.” Lectotype: Herb. Clifford: 468, *Holcus* 1 (BM-000647533). LT designated by Davidse in Cafferty et al. (ed.), Taxon 49: 251. 2000.

Andropogon bicolor (L.) Roxb., Fl. Ind. (Carey and Wallich ed.) 1: 272. 1820

Holcus sorghum L., Sp. Pl. 2: 1047. 1753. Type: “Habitat in India.” Lectotype: Herb. Clifford: 468, *Holcus* 1 (BM-000647533). LT designated by Davidse in Cafferty et al. (ed.). Taxon 49: 251. 2000.

Andropogon sorghum (L.) Brot., Fl. Lusit. 1: 88. 1804

Sorghum vulgare Pers., Syn. Pl. (Persoon) 1: 101. 1805

Sorghum bicolor (L.) Moench var. *arduini* (Körn.) Snowden, Bull. Misc. Inform. Kew 1935: 236. 1935

Andropogon sorghum (L.) Brot. var. *arduini* Körn., Handb. Getreidebaus 1: 312. 1885. Type: “Dies ist vielleicht in Europa die zur samengewinnung und als Grunfut-terpflanze am moisten gebaute varietat, und die erste, welche in deutsche Garten gelangte.”

Sorghum bicolor (L.) Moench var. *picigutta* Snowden, Bull. Misc. Inform. Kew 1935: 236. 1935. Type: Burma: Rangoon; *McClelland s.n.*

Sorghum bicolor (L.) Moench var. *subglobosum* (Hack.) Snowden, Bull. Misc. Inform. Kew 1935: 237. 1935

- Andropogon sorghum* (L.) Brot. var. *subglobosus* Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 515. 1889. Type: “Ins. Hawaii, Honolulu in hortis (Wawra).”
- Andropogon subglabrescens* Steud., Syn. Pl. Glumac. 1: 393. 1854. Type: “Abyssin, An interim, A. Sorghi var.”
- Sorghum subglabrescens* (Steud.) Schweinf. & Asch., Beitr. Fl. Aethiop. 302, 306. 1867
- Andropogon sorghum* (L.) Brot. var. *subglabrescens* (Steud.) Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 519. 1889
- Sorghum subglabrescens* (Steud.) Schweinf. & Asch. var. *latum* Snowden, Bull. Misc. Inform. Kew 1935: 255. 1935. Type: Somaliland: without precise locality; *Farquharson 1*
- Sorghum subglabrescens* (Steud.) Schweinf. & Asch. var. *pabulare* Snowden, Bull. Misc. Inform. Kew 1935: 252. 1935. Type: India: Bombay, Baroda; *Ryan s.n.*
- Sorghum subglabrescens* (Steud.) Schweinf. & Asch. var. *paniculatellum* (Chiov.) Snowden, Bull. Misc. Inform. Kew 1935: 253. 1935 (as “paniculatella”)
- Sorghum subglabrescens* (Steud.) Schweinf. & Asch. var. *rugulosum* (Hack.) Snowden, Bull. Misc. Inform. Kew 1935: 252. 1935
- Andropogon sorghum* (L.) Brot. var. *rugulosus* Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 508. 1889. Type: “In insulis Capitis Viridis praesertim in ins. S. Nicolae, ex Bolle (in sched. h. berol.) spontaneous.” Abyssinia: Cultivated; *Herb. Braun* (B).
- Sorghum subglabrescens* (Steud.) Schweinf. & Asch. var. *oviforme* Snowden, Bull. Misc. Inform. Kew 1935: 254. 1935. Type: India: Bombay, Puna; *Herb. Econ. Bot. Poona Agric. Coll.* 72
- Sorghum subglabrescens* (Steud.) Schweinf. & Asch. var. *rubidum* (Burkill ex Benson & Subbarao) Snowden, Bull. Misc. Inform. Kew 1935: 253. 1935
- Andropogon sorghum* (L.) Brot. subvar. *rubidus* Burkill ex Benson & Subbarao, Madras Dept. Agric. Bull. no. 55: 68, 69. 1906. Type: India: Madras, Coimbatore; *Herb. Rep. Econ. Prod. India; Barber 961*
- Andropogon sorghum* (L.) Brot. var. *mediocris* Burkill ex Benson & Subbarao, Madras Dept. Agric. Bull. no. 55: 68, 69. 1906
- Andropogon sorghum* (L.) Brot. var. *compactus* Burkill ex Benson & Subbarao, Madras Dept. Agric. Bull. no. 55: 67, 69. 1906, p.p. Type: India: Madras, Bellary; *Herb. Rep. Econ. Prod. India; Barber 17840*
- Sorghum subglabrescens* (Steud.) Schweinf. & Asch. var. *compactum* (Burkill ex Benson & Subbarao) Snowden, Bull. Misc. Inform. Kew 1935: 253. 1935
- Andropogon sorghum* (L.) Brot. var. *irungiformis* Burkill ex Benson & Subbarao, Madras Dept. Agric. Bull. no. 55: 67, 69. 1906, p.p.
- Andropogon sorghum* (L.) Brot. var. *mediocris* Burkill ex Benson & Subbarao, Madras Dept. Agric. Bull. no. 55: 67, 69. 1906, p.p.
- Sorghum subglabrescens* (Steud.) Schweinf. & Asch. var. *irungiforme* (Burkill ex Benson & Subbarao) Snowden, Bull. Misc. Inform. Kew 1935: 253. 1935
- Andropogon sorghum* (L.) Brot. var. *irungiformis* Burkill ex Benson & Subbarao, Madras Dept. Agric. Bull. no. 55: 69. 1906, p.p. Type: India: Madras, Trichinopoly; *Herb. Rep. Econ. Prod. India; Barber 17840*

- Andropogon sorghum* (L.) Brot. var. *mediocris* Burkill ex Benson & Subbarao, Madras Dept. Agric. Bull. no. 55: 69. 1906, p.p.
- Sorghum basiplicatum* Chiov var. *paniculatellum* Chiov., Monogr. Rapp. Col. Roma no. 19: 38. 1912. Type: Eritrea: without precise locality; *International Exhibition Turin 1911*, 9
- Andropogon sorghum* (L.) Brot. var. *caudatus* Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 517. 1889. Type: "Colitur in Africa centrali in terra Djur (Schweinf. Ser. III, n. 180 ex p.)."
- Sorghum caudatum* (Hack.) Stapf, Fl. Trop. Afr. [Oliver et al.] 9(1): 131. 1917, p.p.
- Holcus cernuus* Ard., Saggi Sci. Lett. Accad. Padova 1: 128. t. 3. f. 1, 2. 1786
- Sorghum cernuum* (Ard.) Host, Icon. Descr. Gram. Austriac. 4: 2. t. 3. 1809
- Sorghum cernuum* (Ard.) Host var. *orbiculatum* Snowden Bull. Misc. Inform. Kew 1935: 252. 1935. Type: India: Central Provinces, Yeotmal; *Youngman* 56
- Sorghum truchmenorum* C. Koch, Linnaea 21: 442. 1848. Type: Russia, Transcaspian Province; *C. Koch s.n.*
- Sorghum cernuum* (Ard.) Host var. *truchmenorum* (C. Koch) Snowden, Bull. Misc. Inform. Kew 1935: 251. 1935
- Andropogon sorghum* (L.) Brot. var. *truchmenorum* (C. Koch) Körn., Handb. Getreidebaus 1: 315. 1885
- Sorghum cernuum* (Ard.) Host var. *subcylindricum* Snowden, Bull. Misc. Inform. Kew 1935: 252. 1935. Type: India: Bombay, Poona; *Herb Econ. Bot. Poona Agric. Coll.* 65
- Andropogon sorghum* (L.) Brot. var. *globosus* Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 517. 1889. Type: India orient, colitur e. gr. Prope Seramput (Voigt. In H. Havn.) India: Bihar & Orissa, Serampur; *Voigt s.n.* (Mus. Bot. Haun.).
- Sorghum cernuum* (Ard.) Host var. *globosum* (Hack.) Snowden, Bull. Misc. Inform. Kew 1935: 251. 1935
- Andropogon sorghum* (L.) Brot. var. *yemensis* Körn., Bull. Herb. Boissier 2(App. 2): 11. 1894. Type: "Arab Jemen im Tiefland der Tehama ostl von Marraua 162. Ernte Ende Dec 1888. Arab Sudkuste Schugra 60 coll, 81." Arabia: Yemen, east of Marraua; *Schweinfurth* 162 (B).
- Sorghum cernuum* (Ard.) Host var. *yemense* (Körn.) Snowden, Bull. Misc. Inform. Kew 1935: 251. 1935
- Andropogon sorghum* (L.) Brot. var. *agricolarum* Burkill ex Benson & Subbarao, Madras Dept. Agric. Bull. no. 55: 67. 1906, p.p. Type: India: Central Provinces, Ellichpur District; *Herb. Rep. Econ. Prod. India* 22941
- Sorghum cernuum* (Ard.) Host var. *agricolarum* (Burkill ex Benson & Subbarao) Snowden, Bull. Misc. Inform. Kew 1935: 251. 1935
- Sorghum conspicuum* Snowden, Bull. Misc. Inform. Kew 1935: 226. 1935. Type: Tanzania: Tanganyika Territory, Rufiji District; *Wakefield* 9 (K).
- Sorghum conspicuum* Snowden var. *orientale* Snowden, Bull. Misc. Inform. Kew 1935: 227. 1935. Type: India: Bihar & Orissa, Bhagalpur; *Alam* 6 (K).

- Andropogon sorghum* (L.) Brot. var. *usaramense* Buese & Pilg., Bot. Jahrb. Syst. 32: 184. 1902 (as “usaramensis”). Type: Tanzania: Tanganyika Territory, Usaramo, Kisserawe; *Busse* 395 (B).
- Sorghum conspicuum* Snowden var. *usaramense* (Buese & Pilg.) Snowden, Bull. Misc. Inform. Kew 1935: 227. 1935
- Holcus dochna* Forssk., Fl. Aegypt.-Arab. 174. 1775. Type: “Rosetta primum mihi obveniebat in horto, cultus ob pabulum Aviculatum, florens initio Novemb. Potlea, cereale vulgare in Arabia in veniebatur.” Egypt: Rashid (Rosetta); 1761; *Forsskal* 108 (C).
- Sorghum dochna* (Forssk.) Snowden, Bull. Misc. Inform. Kew 1935: 234. 1935
- Andropogon sorghum* (L.) Brot. var. *saccharatus* Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 509. 1889. Type: “Habitat in India.”
- Andropogon sorghum* (L.) Brot. var. *obovatus* Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 514. 1889, p.p. Type: “Vidi ex Italia sup. Pr. Veronam (Reichb. F. germ. exs. No. 2408 sub S. vulgari) Lectum, Hispania (murcia, I. Bourgeau Pl Esp. 1522), Madeira (subv. 4).”
- Sorghum dochna* (Forssk.) Snowden var. *obovatum* (Hack.) Snowden, Bull. Misc. Inform. Kew 1935: 235. 1935
- Sorghum rubens* Willd., Enum. Pl. (Willdenow) 1036. 1809.
- Andropogon rubens* (Willd.) Kunth, Révis. Gramin. 1: 164. 1829
- Andropogon sorghum* (L.) Brot. var. *irungu* Burkill ex Benson & Subbarao, Madras Dept. Agric. Bull. no. 55: 68. 1906. Type: India: Tamil Nadu, Madras, Madura; *Herb. Rep. Econ. Prod. India* 15616
- Sorghum dochna* (Forssk.) Snowden var. *irungu* (Burkill ex Benson & Subbarao) Snowden, Bull. Misc. Inform. Kew 1935: 235. 1935
- Andropogon sorghum* (L.) Brot. var. *technicus* Körn., Handb. Getreidebaus 1: 308. 1885
- Sorghum dochna* (Forssk.) Snowden var. *technicum* (Körn.) Snowden, Bull. Misc. Inform. Kew 1935: 235. 1935
- Sorghum technicum* (Körn) Battand. & Trabut, Fl. Alger (Battandier & Trabut) 128. 1895
- Andropogon sorghum* (L.) Brot. var. *pulcher* Burkill ex Benson & Subbarao, Madras Dept. Agric. Bull. no. 55: 67. 1906, p.p. Type: Burma: Saging; *Herb. Rep. Econ. Prod. India* 11793a
- Sorghum dochna* (Forssk.) Snowden var. *pulchrum* (Burkill ex Benson & Subbarao) Snowden, Bull. Misc. Inform. Kew 1935: 235. 1935
- Sorghum dochna* (Forssk.) Snowden var. *atrum* Snowden, Bull. Misc. Inform. Kew 1935: 235. 1935. Type: Burma: Saging; *Herb. Rep. Econ. Prod. India* 11795a
- Sorghum dochna* (Forssk.) Snowden var. *melliferum* Snowden, Bull. Misc. Inform. Kew 1935: 236. 1935. Type: India: Tamil Nadu, Madras, Tinnevely; *Anstead* 3
- Andropogon sorghum* (L.) Brot. var. *wightii* Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 511. 1889. Type: “Peninsula Indiae or. (Wight h. prop. N. 185).” India: Without precise Locality; *Herb. Wight propr.* 185 (B).

- Sorghum dochna* (Forssk.) Snowden var. *wightii* (Hack.) Snowden, Bull. Misc. Inform. Kew 1935: 236. 1935
- Sorghum durra* (Forssk.) Stapf, Fl. Trop. Afr. [Oliver et al.] 9(1): 129. 1917, non (Forssk.) Batt. & Trab., 1895
- Holcus durra* Forssk., Fl. Aegypt.-Arab. 174. 1775. Type: "Kahirae Durra: in arab. Taam. Colitur fere unicum cereale, finale cum H. Dochn." Yemen: Wadi Mawr; 1763; *Forsskal* 111(C).
- Andropogon sorghum* (L.) Brot. var. *durra* (Forssk.) Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 516. 1889. Type: "Maxime cultus in Aegypto tota (Schweinf. 1523) sub nomine durra awageh, in Abyssinia (Schimp.) Darfur (Pfund), Senegalia (Lelievre, et Verisimiliter etiam in Africa centrali."
- Sorghum durra* (Forssk.) Stapf var. *maximum* Snowden, Bull. Misc. Inform. Kew 1935: 251. 1935. Type: Anglo-Egyptian Sudan: Gedarif; *Punter* 5
- Andropogon sorghum* (L.) Brot. var. *aegyptiacus* Körn., Mem. Inst. Egypt. 2: 164. 1887. Type: Egypt: Assouan; *Ehrenberg s.n.* (B).
- Sorghum durra* (Forssk.) Stapf var. *aegyptiacum* (Körn.) Snowden, Bull. Misc. Inform. Kew 1935: 249. 1935
- Andropogon sorghum* (L.) Brot. var. *coimbatoricum* Burkill ex Benson & Subbarao, Madras Dept. Agric. Bull. no. 55: 68. 1906. Type: India: Madras, Coimbatore District; *Herb. Rep. Econ. Prod. India* 15593
- Sorghum durra* (Forssk.) Stapf var. *coimbatoricum* (Burkill ex Benson & Subbarao) Snowden, Bull. Misc. Inform. Kew 1935: 250. 1935
- Sorghum durra* (Forssk.) Stapf var. *fuscum* Snowden, Bull. Misc. Inform. Kew 1935: 250. 1935. Type: India: Bombay, Sind, Hyderabad; *Navani* 2
- Andropogon sorghum* (L.) Brot. var. *mediocris* Burkill ex Benson & Subbarao, Madras Dept. Agric. Bull. no. 55: 68. 1906, p.p. Type: India: Madras, Kristna; *Herb. Rep. Econ. Prod. India* 15560
- Sorghum durra* (Forssk.) Stapf var. *mediocre* (Burkill ex Benson & Subbarao) Snowden, Bull. Misc. Inform. Kew 1935: 249. 1935
- Sorghum durra* (Forssk.) Stapf var. *rivulare* Snowden, Bull. Misc. Inform. Kew 1935: 251. 1935. Type: Anglo-Egyptian Sudan: White Nile; *Punter* 56
- Sorghum durra* (Forssk.) Stapf var. *fecundum* Snowden, Bull. Misc. Inform. Kew 1935: 250. 1935. Type: India: Bombay, Sind; *Herb. Econ. Bot. Poona Agric. Coll.* 40
- Sorghum durra* (Forssk.) Stapf var. *elongatum* Snowden, Bull. Misc. Inform. Kew 1935: 250. 1935. Type: India: Bombay, Sind; *Herb. Econ. Bot. Poona Agric. Coll.* 26
- Andropogon sorghum* (L.) Brot. var. *bicolor* Körn., Bull. Herb. Boissier 2(App. 2): 11–12. 1894, non Hack., 1889
- Andropogon sorghum* (L.) Brot. var. *usorum* Körn., Bull. Herb. Boissier 2(App. 2): 12. 1894, non (Nees) Körn. & Wern., 1885
- Andropogon sorghum* (L.) Brot. var. *eois* Burkill ex Benson & Subbarao, Madras Dept. Agric. Bull. no. 55: 67. 1906. Type: India: Punjab, Dera Ismail Khan; *Herb. Rep. Econ. Prod. India* 15924

- Sorghum durra* (Forssk.) Stapf var. *eois* (Burkill ex Benson & Subbarao) Snowden, Bull. Misc. Inform. Kew 1935: 250. 1935
- Andropogon sorghum* (L.) Brot. var. *javanicus* Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 517. 1889. Type: “E seminibus javanicis in horto bot. Vindobonensi cultum vidi in herb. Vind.” Austria: Vienna, cultivated in the Botanical Gardens, seed from Java (Herb. Vindob.).
- Sorghum durra* (Forssk.) Stapf var. *javanicum* (Hack.) Snowden, Bull. Misc. Inform. Kew 1935: 250. 1935
- Sorghum membranaceum* Chiov., Monogr. Rapp. Col. Roma 19, 23, 24, 27. 1912. Type: “Collezione della Colonia Eritrea Presentata all’ Esposizione Internat, Torino 1911”
- Sorghum papyrascens* Stapf, Fl. Trop. Afr. [Oliver et al.] 9(1): 134. 1917. Type: Sudan: Sennar, without special localization; *Rubber Exhibition London 1914*
- Sorghum membranaceum* Chiov. var. *ehrenbergianum* (Körn.) Snowden, Bull. Misc. Inform. Kew 1935: 231. 1935
- Andropogon sorghum* (L.) Brot. var. *ehrenbergianus* Körn., Mem. Inst. Egypt. 2: 163. 1887. Type: Egypt: near Assouan; *Ehrenberg s.n.* (B).
- Sorghum membranaceum* Chiov. var. *lateritium* (Stapf) Snowden, Bull. Misc. Inform. Kew 1935: 231. 1935
- Sorghum papyrascens* Stapf var. *lateritium* Stapf, Fl. Trop. Afr. [Oliver et al.] 9(1): 134. 1917. Type: Anglo-Egyptian Sudan: Sennar Province; *Rubber Exhibition London 1914*
- Sorghum miliiforme* (Hack.) Snowden, Bull. Misc. Inform. Kew 1935: 237. 1935
- Andropogon sorghum* (L.) Brot. var. *milliformis* Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 518. 1889. Type: “Colitur in Bengaliae regione trop. (Hook. f. et Thoms.) in Ceylon.” India: Sikkim; *J.D. Hooker & T. Thomson s.n.*
- Sorghum milliforme* (Hack.) Snowden var. *rotundulum* Snowden, Bull. Misc. Inform. Kew 1935: 237. 1935. Type: Bihar & Orissa, Bhagalpur; *Alam 9*
- Sorghum milliforme* (Hack.) Snowden var. *sikkimense* Snowden, Bull. Misc. Inform. Kew 1935: 237. 1935. Type: India: Sikkim, Tukvar; *Gamble 3354a*
- Sorghum nervosum* Bess. ex Schultes, Mant. 2 (Schultes) Add. II: 669. 1827
- Andropogon besseri* Kunth, Révis. Gramin. 1: 166. 1829
- Sorghum roxburghii* Stapf, Fl. Trop. Afr. [Oliver et al.] 9(1): 126. 1917
- Andropogon sorghum* (L.) Brot. var. *hians* Stapf, Fl. Brit. India (J.D. Hooker). 7(21): 184. 1896. Type: *Wight Cat. no. 1670*
- Sorghum roxburghii* Stapf var. *hians* (Stapf) Stapf, Fl. Trop. Afr. [Oliver et al.] 9(1): 127. 1917
- Andropogon sorghum* (L.) Brot. var. *fulvus* Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 512. 1889. Type: “Colitur in Madagascar (Hildebrandt 3219 pr. Nosi-be), in ins Angorna (Peters in h. berol.).” Madagascar: Nossi-Be; *Hildebrandt 3219* (K).
- Sorghum roxburghii* Stapf var. *fulvum* (Hack.) Snowden, Bull. Misc. Inform. Kew 1935: 228. 1935

Sorghum roxburghii Stapf var. *semiclausum* Stapf, Fl. Trop. Afr. [Oliver et al.] 9(1): 127. 1917, p.p., nom. & stat. nov.

Sorghum roxburghii Stapf var. *nanum* Snowden, Bull. Misc. Inform. Kew 1935: 228. 1935. Type: India: Bihar & Orissa, Patna; *Alam* 2

Distribution. Andhra Pradesh, Assam, Bihar, Chhattisgarh, Gujarat, Himachal Pradesh, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Meghalaya, Mizoram, Odisha, Punjab, Sikkim, Tamil Nadu, Tripura, Uttar Pradesh, Uttarakhand, West Bengal [Bangladesh, Myanmar, Pakistan, Sri Lanka]. Cultivated; native to Africa.

Habit. Annual.

Remarks. *Sorghum bicolor* was divided into many infraspecific taxa by Snowden (1935), but Harlan and DeWet (1972) provided a much simpler classification, reducing most of Snowden's taxa to synonymy.

1201. *Sorghum controversum* (Steud.) Snowden, J. Linn. Soc., Bot. 55: 210. 1955

Andropogon controversus Steud., Syn. Pl. Glumac. 1: 391. 1854. Type: "A. laxis Roxb. Fl. Ind. 275 vix Thunberg. Ind. or."

Type. Not designated. Until Roxburgh's type specimen has been located, a specimen in Kew Herbarium, *Bourne* 3270, from Tapeswarani, Godavery District, Madras province, dated December 1907, has been selected as characteristic of the awned state of this species.

Distribution. Andhra Pradesh, Bihar, Madhya Pradesh, Maharashtra, Odisha, Tamil Nadu, West Bengal.

Habit. Perennial.

1202. *Sorghum deccanense* Stapf in Bor, Grasses Burma, Ceylon, India & Pakistan 245. 1960

Type. India: Madhya Pradesh; *J.F. Duthie* 8538, 10025. Deccan; *Woodrow* s.n.

Distribution. Gujarat, Madhya Pradesh, Maharashtra, Rajasthan.

Habit. Annual.

Remarks. Records from Gujarat and Maharashtra fide Naithani (1990).

1203. *Sorghum halepense* (L.) Pers., Syn. Pl. (Persoon) 1: 101. 1805

Holcus halepensis L., Sp. Pl. 2: 1047. 1753. Type: "Habitat in Syria, Mauritania." Lectotype: Herb. Linn. No. 1212.7 (LINN). LT designated by Meikle in Fl. Cyprus 2: 1869. 1985.

Milium halepense (L.) Cav., Descr. Pl. (Cavanilles). 306. 1802

Andropogon halepensis (L.) Brot., Fl. Lusit. 1: 89. 1804

Andropogon sorghum (L.) Brot. ssp. *halepensis* (L.) Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 501. 1889

Blumenbachia halepensis (L.) Koeler, Descr. Gram. (Koeler) 29. 1802 (as “haleppensis”)

Andropogon miliaceus Roxb., Fl. Ind. (Carey and Wallich ed.) 1: 276. 1820. Lectotype: Wallich Numer. List no 8778 B. LT designated by Snowden in J. Linn. Soc., Bot. 55: 207. 1955.

Sorghum miliaceum (Roxb.) Snowden, J. Linn. Soc., Bot. 55: 207. 1955

Sorghum miliaceum (Roxb.) Snowden var. *parvispiculum* Snowden, J. Linn. Soc., Bot. 55: 209. 1955. Type: India: Dehra Dun; Gamble 27139 (K).

Andropogon arundinaceus Scop., Fl. Carniol., ed 2. 2: 274. 1772, non P.J.Bergius, 1767. Type: “Habitat in Afro Tergetino, calamitosum.”

Distribution. Andaman and Nicobar Islands, Andhra Pradesh, Bihar, Chhattisgarh, Delhi, Jammu and Kashmir, Himachal Pradesh, Goa, Gujarat, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Nagaland, Odisha, Punjab, Rajasthan, Tamil Nadu, Uttar Pradesh, Uttarakhand, West Bengal [Bangladesh, Sri Lanka].

Habit. Perennial.

1204. *Sorghum nitidum* (Vahl) Pers., Syn. Pl. (Persoon) 1: 101. 1805

Holcus nitidus Vahl, Symb. Bot. (Vahl) 2: 102. 1791. Type: “Habitat in India Orientali.”

Holcus fulvus R. Br., Prodr. Fl. Nov. Holland. 199. 1810. Type: Australia: “littora Novae Hollandiae intra tropicum.”

Sorghum fulvum (R. Br.) P. Beauv., Ess. Agrostogr. 131, 164. 1812

Andropogon fulvus (R. Br.) Spreng., Pl. Min. Cogn. Pug. 2: 8. 1815

Sorghum tropicum Buse, Pl. Jungh. 359. 1854, nom. superfl. & illeg. for *Holcus fulvus*.

Andropogon serratus Thunb., Syst. Veg., ed. 14 (J. A. Murray). 903. 1784

Sorghum serratum (Thunb.) Kuntze, Revis. Gen. Pl. 2: 792. 1891, non (Thunb.) Roem. & Schult., 1817

Andropogon tropicus Spreng., Syst. Veg. (ed. 16) [Sprengel] 1: 287. 1824 (“1825”), nom. superfl. & illeg. for *Holcus fulvus*

Distribution. Andhra Pradesh, Assam, Bihar, Chhattisgarh, Himachal Pradesh, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Manipur, Meghalaya, Nagaland, Odisha, Tamil Nadu, Uttar Pradesh, Uttarakhand, West Bengal [Bhutan, China, Myanmar, Sri Lanka].

Habit. Perennial.

1205. *Sorghum propinquum* (Kunth) Hitchc., Lingnan Sci. J. 7: 249. 1931 (“1929”)

Andropogon propinquus Kunth, Enum. Pl. [Kunth] 1: 502. 1833. Type: “Ins. Neu-Hannover, ad ripas.”

Sorghum propinquum (Kunth) Hitchc. var. *siamense* (Piper) Snowden, J. Linn. Soc., Bot. 55: 214. 1955

Sorghum affine A. Camus, Fl. Indo-Chine [P.H. Lecomte et al.] 7: 321. 1922, non (R. Br.) Kuntze, 1891

Andropogon affinis J. Presl, Reliq. Haenk. 1: 343. 1830, non R. Br., 1810. Type: Philippines: Luzon; *T. Haenke s.n.* [according to Piper, 1915] (US-76438).

Andropogon halepensis (L.) Brot. ssp. *siamensis* Piper, Proc. Biol. Soc. Wash. 28: 30. 1915. Syntypes: Cambodia: Pnum Penh; October, 1878; *Godefroy-lebeuf* 83 (K). Siam: Pak Bawag; September 4, 1911; *Kerr* 2006 (K). Siam: Near Kampang, 350 ft., growing in pampas along the banks of Mei Ping river; October 11, 1911; *Kerr* 2156 (K).

Distribution. Tamil Nadu [China, Sri Lanka].

Habit. Perennial.

Remarks. Record for Tamil Nadu fide Naithani (1990).

1206. *Sorghum purpureosericeum* (Hochst. ex A. Rich.) Schweinf. & Asch., Beitr. Fl. Aethiop. 310. 1867

Andropogon purpureosericeus Hochst. ex A. Rich., Tent. Fl. Abyss. 2: 469. 1850–1851. Type: “Crescit in convalle fluvii Mareb, mense Novembre; Quartin Dillon et Ant. Petit et in locis paludosis in regione Montana Walcha provinciae Sana, mense Augusto; *Schimper s.n.*”

Distribution. Gujarat, Karnataka, Maharashtra, Rajasthan [also in Africa].

Habit. Annual.

***Spodiopogon* Trin., Fund. Agrost. (Trinius) 192. 1820**

Type. *Spodiopogon sibiricus* Trin.

1207. *Spodiopogon aristatus* R.J. Desai & Raole, Kew Bull. 67(1): 103. 2012

Type. India, Gujarat, Tapi District, Bunadha, 10 November 2009, *R.J. Desai* 241 (holotype: BARO).

Distribution. Gujarat.

Habit. Perennial.

1208. *Spodiopogon cotulifer* (Thunb.) Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 187. 1889

Andropogon cotulifer Thunb., Syst. Veg., ed. 14 (J. A. Murray). 903. 1784 (“cotuliferum”). Type: Japonia: Nagasaki; *Thunburg s.n.*

Eccoilopus cotulifer (Thunb.) A. Camus, Ann. Soc. Linn. Lyon ser. 2. 70: 92. 1924

Distribution. Jammu and Kashmir, Meghalaya [China].

Habit. Perennial.

1209. *Spodiopogon dubius* Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 186. 1889

Type. “In Himalayae boreali-occidentalis regione tropica (Hook. f. et Thomos h. Ind. Or. *Andropogon* 11).” Nepal, alt. 10000 ft.; *J.D. Hooker. & Thomson s.n.*

Distribution. Himachal Pradesh, Jammu and Kashmir, Uttarakhand [China, Nepal].

Habit. Perennial.

1210. *Spodiopogon jainii* V.J. Nair, A.N. Singh & N.C. Nair, Curr. Sci. 50: 730. 1981

Distribution. Madhya Pradesh.

Habit. Annual.

1211. *Spodiopogon lacei* Hole, Indian Forest Rec., Bot. 5(6): 185. 1915

Syntypes. Burma: Maymyo; *Lace no. 4372*. Burma: Maymyo; *Lace no. M (6)*. Burma: Maymyo; *Lace 6025* (DD).

Distribution. Manipur [Myanmar].

Habit. Perennial.

Remarks. Record for India fide Naithani (1990).

1212. *Spodiopogon rhizophorus* (Steud.) Pilg., Nat. Pflanzenfam., ed. 2 [Engler & Prantl], 14e: 119. 1940

Andropogon rhizophorus Steud., Syn. Pl. Glumac. 1: 381. 1854. Type: “Hinc praecedenti, hinc A. biaristato Steud nr. 197 affinis. *Hrbr Wall. Nr 1821*.”

Spodiopogon albidus Benth., J. Linn. Soc., Bot. 19: 66. 1881, nom. nud.

Distribution. Dadra and Nagar Haveli, Goa, Gujarat, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Rajasthan, Tamil Nadu.

Habit. Annual.

***Thelepogon* Roth, Syst. Veg. Syst. Veg., ed. 15 bis [Roemer & Schultes]. 2: 46. 1817**

Type. *Thelepogon elegans* Roth.

1213. *Thelepogon elegans* Roth, Syst. Veg., ed. 15 bis [Roemer & Schultes]. 2: 788. 1817

Andropogon princeps A. Rich., Tent. Fl. Abyss. 2: 470. 1850–1851. Type: “Crescit in campis humidis convallis fluvii Tacazze, mense Julio; Quartin Dillon.” Type: Ethiopia: Tacazze; *Quartin Dillon & Petit s.n.* (P)

Jardinea abyssinica Steud., Syn. Pl. Glumac. 1: 360. 1854, nom. superfl. & illeg. for *Andropogon princeps*

Rhynchospora princeps (A. Rich.) Hochst. ex Steud., Syn. Pl. Glumac. 1: 360. 1854, nom. invalid. Cited as synonym of *Jardinea abyssinica*

Type. “In India Orientali; *Roth s.n.*”

Distribution. Andhra Pradesh, Bihar, Chhattisgarh, Gujarat, Karnataka, Madhya Pradesh, Maharashtra, Rajasthan, Tamil Nadu [also in Africa].

Habit. Annual.

***Themeda* Forssk., Fl. Aegypt.-Arab 178. 1775**

Type. *Themeda triandra* Forssk.

1214. *Themeda anathera* (Nees) Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 669. 1889

Anthistiria anathera Nees, Syn. Pl. Glumac. (Steudel) 1: 402. 1854. Type: India Orientali; Numer. List [Wallich] no. 8773 (K).

Androscepiopsis anathera (Nees) Andersson, Nov. Act. Nat. Soc. Sc. Upsal. ser. 3. 2: 249. 1856

Themeda dacurzii Birari, J. Bombay Nat. Hist. Soc. 70: 346. f. 1–5. 1973. Type: India: Uttar Pradesh, Dehra Dun, Mussoorie Hill; December 17, 1969; *Birari I-774* (College of Agriculture).

Distribution. Himachal Pradesh, Jammu and Kashmir, Uttar Pradesh, Uttarakhand [Afghanistan, Nepal, Pakistan].

Habit. Perennial.

1215. *Themeda arguens* (L.) Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 657. 1889

Stipa arguens L., Sp. Pl., ed. 2. 1: 117. 1762. Type: “Habitat in India.” Lectotype: Herb. Linn. No. 94.10 (LINN). LT designated by Merrill in Interpret. Rumph. Herb. Amb. 89. 1917. Epitype: Thailand. Flora of Siam 8036 (BM). Epitype designated by Cope in (ed.), SC/CEJ.

Anthistiria arguens (L.) Willd., Sp. Pl., ed. 4 [Willdenow] 4(1): 901. 1806

Anthistiria pilifera Steud., Syn. Pl. Glumac. 1: 400. 1854. Type: “Hrbr. Goering sect II nr. 145. *A. arguens* Morit et Zolling Verz. p. 99 nr. 373.”

Distribution. Andaman and Nicobar [China].

Habit. Annual.

1216. *Themeda arundinacea* (Roxb.) Ridley, Trans. Linn. Soc. London, Bot. Ser. 2. 3: 401. 1893

Anthistiria arundinacea Roxb., Fl. Ind. (Carey and Wallich ed.) 1: 256. 1820. Type: “A native of Bengal.”

Anthistiria gigantea Cav. ssp. *arundinacea* (Roxb.) Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 674. 1889

Cymbopogon arundinaceus (Roxb.) Schultes, Mant. 2 (Schultes) 457. 1824

Anthistiria subsericans Nees, Syn. Pl. Glumac. (Steudel) 1: 401. 1854. Type: India Orientali; *Numer. List [Wallich] no. 8774B*

Themeda subsericans (Nees) Ridl., Fl. Malay. Penin. 5: 212. 1925

Anthistiria gigantea Cav. subvar. *subsericans* (Nees) Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 674. 1889

Distribution. Andhra Pradesh, Assam, Bihar, Jharkhand, Manipur, Meghalaya, Nagaland, Odisha, Tripura, Uttar Pradesh, Uttarakhand, West Bengal [Bangladesh, Bhutan, China, Myanmar, Nepal].

Habit. Perennial.

1217. *Themeda caudata* (Nees) A. Camus, Fl. Indo-Chine [P.H. Lecomte et al.] 7: 364. 1922

Anthistiria caudata Nees in Hook. & Arn., Bot. Beechey Voy. 245. 1838. Type: “Hab. Prope Macao et in vicinis insulis; *G.H. Vachell no. 46*”

Themeda gigantea (Cav.) Hack. ssp. *caudata* (Nees) Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 676. 1889, p.p.

Androscepioides gigantea (Cav.) Brongn. var. *armata* Andersson, Nov. Act. Nat. Soc. Sc. Upsal. ser. 3. 2: 248. 1856. Type: "Hab. in insula Java; Zollinger (in sylvis p. *Tjkoya* n. 1029) et in India Orientali (Mirra Poonje: de Silva et W. Gomez: *Numer. List* [Wallich] no. 8774)"

Themeda longispatha (Hack.) Raizada & Jain, Indian Forester 80: 45. 1954

Themeda gigantea (Cav.) Hack. var. *longispatha* Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 677. 1889. Type: "Terai ad pedes montium Himalaya (O. Kuntze in h. prope.)."

Distribution. Assam, Bihar, Jharkhand, Madhya Pradesh, Manipur, Meghalaya, Tripura, Odisha, Uttar Pradesh, Uttarakhand, West Bengal [Bhutan, Myanmar, Nepal, Sri Lanka].

Habit. Perennial.

1218. *Themeda cymbaria* Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 668. 1889

Anthistiria cymbaria Roxb., Hort. Beng. 6. 1814, p.p. (excl. basionym)

Syntypes. "India or. in montosis (Roxb.) Peninsula (*Wight* 1707, 175 [h. prop.] Maisur et Carnatic (*Hook. f. Thoms.*); Ceylon (*Thwaites* 3257, 3803)."

Distribution. Goa, Gujarat, Karnataka, Kerala, Maharashtra, Tamil Nadu [Sri Lanka].

Habit. Perennial.

1219. *Themeda hookeri* (Griseb.) A. Camus, Bull. Mus. Hist. Nat. (Paris) 26: 425. 1920

Anthistiria hookeri Griseb., Nachr. Ges. Wiss. Gottingen, Math.-Phys. Kl. 91. 1868. Type: "H. or Sikkim. 6000–9000 ft. (H. Androscep. No. 2), Khasya 5000 (H.)"

Distribution. Meghalaya, Sikkim [China, Nepal].

Habit. Perennial.

1220. *Themeda huttonensis* Bor, Indian Forest Rec., Bot. new ser., 1(3): 96. 1938

Type. India: Naga Hills, near Laruri, on the bank of Nanteilek river; *N.L. Bor s.n.*

Distribution. Assam, Nagaland.

Habit. Perennial.

1221. *Themeda intermedia* (Hack.) Bor, Indian Forest Rec., Bot. new ser., 1(3): 96. 1938

Themeda gigantea Hack. var. *intermedia* Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 675. 1889. Type: “In montium Khasia reg. trop. (Hook. f. et Thoms. sub *Androscepi*a nr. 4).”

Distribution. Arunachal Pradesh, Assam, Manipur, Meghalaya, Nagaland [Bhutan, China].

Habit. Perennial.

1222. *Themeda laxa* (Andersson) A. Camus, Bull. Mus. Hist. Nat. (Paris) 26: 423. 1920

Anthistiria laxa Andersson, Nov. Act. Nat. Soc. Sc. Upsal. ser. 3. 2: 243. 1856. Type: “Hab. in Nepalia.” *Numer. List [Wallich]* no. 8775 (S).

Distribution. Andhra Pradesh, Assam, Bihar, Chhattisgarh, Jharkhand, Karnataka, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Odisha, Rajasthan, Tamil Nadu [Bhutan, Nepal].

Habit. Perennial.

1223. *Themeda mooneyi* Bor, Kew Bull. 1951: 451. 1952

Type. India: Orissa, near Pottangi, Koraput District, alt. 4100 ft.; October 1950; *H.F. Mooney* 4064 (K).

Distribution. Odisha.

Habit. Perennial.

1224. *Themeda odishae* Chorghe, K. Prasad, Prasanna & Y. V. Rao, Phytotaxa 245 (2): 183. 2016

Type. India, Orissa, Gajapati District, Mahendragiri Hills, 17th September 2014, *Alok Chorghe & K. Prasad* 4209 (BSID, CAL).

Distribution. Odisha.

Habit. Perennial.

1225. *Themeda palakkadensis* Chorghe, K Prasad & Lakshmin., Taiwania 64(3): 231. 2019

Type. India, Kerala, Palakkad District, Elvai Malai, 12th November, 2016, *K. Prasad* 8485 (CAL, BSI).

Distribution. Kerala.

Habit. Perennial.

1226. *Themeda quadrivalvis* (L.) Kuntze, Revis. Gen. Pl. 2: 794. 1891 var. *quadrivalvis*

Andropogon quadrivalvis L., Syst. Veg., ed. 13. 1: 758. 1774, replaced synonym *Andropogon nutans* L. (1771), nom. illeg., non L. (1753). Lectotype: Herb. Linn. No. 1211.5 (LINN). LT designated by Cope in Cafferty et al. (ed.), Taxon 49: 246. 2000.

Anthistiria scandens Roxb., Fl. Ind. (Carey and Wallich ed.) 1: 253. 1820. Type: "A Native of Bengal."

Themeda ciliata Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 664. 1889, nom. superfl. & illeg.

Anthistiria ciliata L.f., Suppl. Pl. 113. 1782 ("1781"), nom. superfl. & illeg.

Distribution. Andhra Pradesh, Bihar, Goa, Gujarat, Karnataka, Kerala, Maharashtra, Manipur, Nagaland, Odisha, Rajasthan, Sikkim, Tamil Nadu, Uttar Pradesh, Uttarakhand, West Bengal [Africa, China, Myanmar, Nepal].

Habit. Annual.

1227. *Themeda quadrivalvis* (L.) Kuntze var. *helferi* (Hack.) Bor, Grasses Burma, Ceylon, India & Pakistan 252. 1960

Themeda helferi Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 665. 1889. Type: Burma: Andaman Islands (Bay of Bengal), Tenasserim; March 1862; *J.W. Helfer* 6809

Distribution. Andaman and Nicobar Islands, Andhra Pradesh, Madhya Pradesh, Uttar Pradesh [Myanmar].

Habit. Annual.

Remarks. Records for Andaman and Nicobar Islands and Madhya Pradesh fide Naithani.

1228. *Themeda sabarimalayana* Sreek. & V.J. Nair, Bull. Bot. Surv. India 29(1–4): 127. 1989 (“1987”)

Type. India: Kerala, Pathanamthitta District, on way to Sabarimala, alt. 1500 ft.; December 23, 1980; *P.V. Sreekumar* 69433 (CAL).

Distribution. Kerala, Tamil Nadu.

Habit. Perennial.

1229. *Themeda saxicola* Bor, Kew Bull. 1951: 452. 1952

Type. India: Orissa, Raisili Village, Koraput District, alt. 3200 ft.; October 25, 1950; *H.F. Mooney* 4241 (K).

Distribution. Odisha.

Habit. Perennial.

1230. *Themeda strigosa* (Buch.- Ham. ex Hook. f.) A. Camus, Bull. Mus. Hist. Nat. (Paris) 26: 423. 1920

Anthistiria strigosa Buch.- Ham. ex Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 214. 1896. Type: India: Assam; *Buchanan-Hamilton* s.n. Bihar, Monghyr; *Herb Calcutta*

Distribution. Assam, Bihar, Maharashtra, Uttar Pradesh, West Bengal.

Habit. Perennial.

1231. *Themeda tremula* (Nees) Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 667. 1889

Anthistiria tremula Nees, Syn. Pl. Glumac. (Steudel) 1: 401. 1855. Type: Sri Lanka; *Heyne* s.n. (Numer. List [Wallich] no. 8765).

Androscepia tremula (Nees) Andersson, Nov. Act. Nat. Soc. Sc. Upsal. ser. 3. 2: 247. 1856

Themeda tremula (Nees) Hack. var. *thwaitesii* (Hook. f.) Senaratna, Grasses of Ceylon 198. 1956

Anthistiria thwaitesii Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 215. 1896. Type: Sri Lanka; *Thwaites* s.n.

Anthistiria tremula Nees var. *thwaitesii* (Hook. f.) Hook. f. in Trimen, Handb. Fl. Ceylon 5: 250. 1900

Themeda thwaitesii (Hook. f.) A. Camus, Bull. Mus. Hist. Nat. (Paris) 26: 424. 1920

Anthistiria tremula Nees var. *brunnea* Hook. f. in Trimen, Handb. Fl. Ceylon 5: 250. 1900. Syntypes: Abundant throughout the Island. Moragala; *Trimen s.n.* Madulsema; *Pearson s.n.*

Themeda tremula (Nees) Hack. var. *brunnea* (Hook. f.) Senaratna, Grasses of Ceylon 198. 1956

Distribution. Andhra Pradesh, Bihar, Goa, Gujarat, Karnataka, Kerala, Maharashtra, Meghalaya, Rajasthan, Tamil Nadu, Uttar Pradesh [Sri Lanka].

Habit. Perennial.

1232. *Themeda triandra* Forssk., Fl. Aegypt.-Arab. 178. 1775

Anthistiria australis R. Br., Prodr. Fl. Nov. Holland. 200. 1810. Type: Australia: "littora Novae Hollandiae intra tropicum." Australia; *R. Brown 6194* (BM).

Themeda australis (R. Br.) Stapf, Fl. Trop. Afr. [Oliver et al.] 9(3): 420. 1919, in obs.
Anthistiria glauca Desf., Fl. Atlant. 2: 380. t. 254. 1799. Type: "Habitat in collibus arenosis prope Bone, Constantine et aliis locis."

Anthistiria imberbis Retz., Observ. Bot. (Retzius) 3: 11. 1783. Type: South Africa: Cape, Cape of Good Hope; *Sparrmann s.n.* (LD).

Themeda imberbis (Retz.) T. Cooke, Fl. Bombay 2: 993. 1908

Anthistiria paleacea Ball, J. Linn. Soc., Bot. 16: 734. 1878. Type: "In collibus et locis aridis raro, loco natali non indicto."

Anthistiria punctata Hochst. ex A. Rich., Tent. Fl. Abyss. 2: 448. 1850–1851. Syntypes: Ethiopia: Scholoda; October 3, 1837; *G.H.W. Schimper Abyss., sect. I, 73* (P). Ethiopia: in monte Selleuda nec non in montibus probe Tecli, in provincia Sana, mensibus Augusto ad Octobrem; Schimper, pl. Schimp. Abyss., sect. III, 1555 (P). Ethiopia: in locis montosis juxta Memsah; *Quartin Dillon s.n.* (P).

Stipa arguens Thunb., Prodr. Pl. Cap. 20. 1794, non L., 1762

Calamina imberbis sensu (Retz.) Roem. & Schult., Syst. Veg., ed. 15 bis [Roemer & Schultes]. 2: 810. 1817, non P. Beauv., 1812

Themeda forskalii Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 659. 1889

Type. "Yemen in montibus ad Hadiyah"; 1763; *Forsskal s.n.* (C (destroyed)).

Distribution. Andhra Pradesh, Assam, Bihar, Chhattisgarh, Goa, Gujarat, Haryana, Himachal Pradesh, Jammu and Kashmir, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Nagaland, Punjab, Rajasthan, Tamil Nadu, Uttar Pradesh [Bhutan, China, Myanmar, Nepal, Sri Lanka].

Habit. Perennial.

1233. *Themeda villosa* (Poir.) A. Camus, Fl. Indo-Chine [P.H. Lecomte et al.] 7: 364. 1922

Anthistiria villosa Poir., Encycl. (Lamarck) Suppl. 1: 396. 1810. Type: “Cette plante a été recueillie a Java par Commerson (V.S. in herb Lam. & Desfont.).”

Themeda gigantea (Cav.) Hack. ssp. *villosa* (Poir.) Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 675. 1889

Aristaria mutica Hassk., Tijdschr. Natuurl. Gesch. Physiol. 10: 117. 1843. Type: Cited Anth. *Gigantea* Cav. (Wild. Sp. 4: 902, 7. Spreng vol.1.291.15)

Heterelytron scabrum Jungh., Tijdschr. Natuurl. Gesch. Physiol. 7: 294. 1840. Type: Indonesia: Java “Per totam insulam locis apricis, siccis usque ad 2000 pedum altitudinem.”

Themeda gigantea sensu Alston in Trimen, Handb. Fl. Ceylon 6: 336. 1931, non (Cav.) Hack., 1889

Anthistiria mutica sensu Steud., Syn. Pl. Glumac. 1: 401. 1854, non, Hassk., 1843

Androscepia mutica Andersson ex Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 217. 1896, nom. nud., pro. syn.

Distribution. Arunachal Pradesh, Assam, Bihar, Manipur, Meghalaya, Nagaland, Tripura, Odisha, Uttar Pradesh, Uttarakhand, West Bengal [Bangladesh, Bhutan, China, Nepal, Sri Lanka].

Habit. Perennial.

***Thuarea* Pers., Syn. Pl. (Persoon) 1: 110. 1805**

Type. *Thuarea sarmentosa* Pers.

1234. *Thuarea involuta* (G. Forst.) Sm., Cycl. (Rees) 35(2): *Thuarea* [no. 3] [unpaginated]. 1817

Ischaemum involutum G. Forst., Fl. Ins. Austr. 73. 1786. Type: “Societatis insulae et passim intra tropicos.”

Ornithocephalochloa arenicola Kurz, J. Bot. 13: 332. t. 171. f. 1–18. 1875. Type: “Hab. in arenosis calcareis littorum ins. Katchall, frequens. – Gramen valde peculiare nullo generi inter Phalarideas arcte affine.”

Thuarea sarmentosa Pers., Syn. Pl. (Persoon) 1: 110. 1805. Type: “Hab. in Madagascariae arenos.”

Distribution. Andaman and Nicobar Islands, Lakshadweep [China, Sri Lanka].

Habit. Perennial.

***Trilobachne* Schenck ex Henrard, Meded. Rijks-Herb. 67: 4. 1931**

Type. *Trilobachne cookei* (Stapf) Schenck ex Henrard (*Polytoca cookei* Stapf).

1235. *Trilobachne cookei* (Stapf) Schenck ex Henrard, Meded. Rijks-Herb. 67: 4. 1931

Polytoca cookei Stapf, Hooker's Icon. Pl. 24: t. 2333. 1894. Type: "Hab. in sylvis insulae Salsetta Bombay. Jacquemont 706. Bombay Herb. Dalzell, ad Mahableshevar, Woodrow; October 1893; Concan Herb. Ind. Or. Hook. f. et Th. In concan meridionali in Canara septentrionali, Dr. Lisboa Comm. 1891."

Distribution. Goa, Gujarat, Karnataka, Maharashtra, Dadra and Nagar Haveli, Tamil Nadu [Sri Lanka].

Habit. Annual.

***Tripidium* H. Scholz in Willdenowia 36(2): 664. 2006**

Ripidium Trin., Fund. Agrost. (Trinius) 169. 1820, non Bernh. (1800).

Type. *Tripidium ravennae* (L.) H. Scholz. (*Andropogon ravennae* L.).

1236. *Tripidium arundinaceum* (Retz.) Welker, Voronts. & E.A. Kellogg, Taxon 68 (2): 255. 2019

Saccharum arundinaceum Retz., Observ. Bot. (Retzius) 4: 14. 1786–1787. Type: "Colitur juxta sepes et ad stagnorum margines prope Tranquebar, alibi rarius. Inde misit honor. Koenig. "

Erianthus arundinaceus (Retz.) Jeswiet, Arch. Suikerindustr. Ned. Ned.-Indie 33: 399. 1925

Saccharum procerum sensu Trimen, Syst. Cat. Fl. Pl. Ceylon 106. 1885, non Roxb., 1820

Saccharum arundinaceum var. *trichophyllum* (Hand.-Mazz.) S.M. Phillips & S.L. Chen, Novon 15(3): 469–470. 2005. [This combination is not made here.]

Erianthus griffithii var. *trichophyllus* Hand.-Mazz., Akad. Wiss. Wien, Math.-Naturwiss. Kl., Anz. 58: 154. 1921

Erianthus trichophyllus (Hand.-Mazz.) Hand.-Mazz., Akad. Wiss. Wien, Math.-Naturwiss. Kl., Anz. 62: 254. 1926

Distribution. Andaman and Nicobar Islands, Arunachal Pradesh, Assam, Bihar, Chhattisgarh, Himachal Pradesh, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Meghalaya, Odisha, Punjab, Rajasthan, Sikkim, Tamil Nadu, Uttar Pradesh, West Bengal [Bangladesh, Bhutan, China, Myanmar, Sri Lanka].

Habit. Perennial.

Remarks. Welker et al. (2019) suggest that *Saccharum arundinaceum* var. *trichophyllum* probably belongs in *Tripidium*, but have chosen not to make the combination in *Tripidium* pending additional data. The variety is placed here provisionally.

1237. *Tripidium bengalense* (Retz.) H. Scholz, Willdenowia 36(2): 664. 2006

Saccharum bengalense Retz., Observ. Bot. (Retzius) 5: 16. 1788 (“1789”). Type: “Habitat Bengaliae, unde benevole communicavit cel. Koenig.”

Saccharum ciliare T. Anderson, Ofvers. Forh. Kongl. Svenska Vetensk.-Akad. 155. 1855. Type: India: Madhya Pradesh?, Balapur; *Hugel* 877 (W).

Erianthus ciliaris (T. Anderson) Jeswiet, Arch. Suikerindustr. Ned. Ned.-Indie 33: 399. 1925

Saccharum munja Roxb., Fl. Ind. (Carey and Wallich ed.) 1: 250. 1820. Type: India: “A native of the countries about Benares, Botanical Gardern, Calcutta.”

Erianthus munja (Roxb.) Jeswiet, Arch. Suikerindustr. Ned. Ned.-Indie 33: 399. 1925

Saccharum sara Roxb., Fl. Ind. (Carey and Wallich ed.) 1: 249. 1820. Type: India: “found in the vicinity of Calcutta but rather rare.”

Erianthus sara (Roxb.) Rumke, Arch. Suikerindustr. Ned. Ned.-Indie Meded. 2: 223. t. 2. 1934

Saccharum arundinaceum sensu Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 119–120. 1896, p.p., non Retz., 1786

Distribution. Assam, Bihar, Gujarat, Jammu and Kashmir, Himachal Pradesh, Madhya Pradesh, Rajasthan, Uttar Pradesh, Uttarakhand, West Bengal [Pakistan].

Habit. Perennial.

1238. *Tripidium procerum* (Roxb.) Welker, Voronts. & E.A. Kellogg, Taxon 68(2): 2019

Saccharum procerum Roxb., Fl. Ind. (Carey and Wallich ed.) 1: 248. 1820. Type: “A native of Bengal.”

Distribution. Arunachal Pradesh, Assam, Bihar, Meghalaya, Manipur, Tripura, Sikkim, West Bengal [Bangladesh, China, Nepal].

Habit. Perennial.

1239. *Tripidium ravennae* (L.) H. Scholz, Willdenowia 36(2): 664. 2006

Andropogon ravennae L., Sp. Pl., ed. 2. 2: 1481. 1763. Lectotype: "Habitat in Italia." Herb. Linn. -77.4. LT designated by S. Cafferty, C.E. Jarvis & N.J. Turland. Taxon 49(2): 246. 2000

Saccharum ravennae (L.) L., Syst. Veg., ed. 13. 88. 1774

Erianthus ravennae (L.) P. Beauv., Ess. Agrostogr. 14. 162. 1812

Ripidium ravennae (L.) Trin., Fund. Agrost. (Trinius) 169. 1820. Type: "Habitat [in Italia.]" Lectotype: Herb. Linn. No. 77.4 (LINN). LT designated by Cope in Cafferty et al. (ed.), Taxon 49: 246. 2000.

Erianthus elephantinus Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 122. 1896. Syn-types: India: Assam; *Griffith s.n.* (K). India: Assam; *Simonds s.n.* (K).

Distribution. Arunachal Pradesh, Assam, Bihar, Delhi, Himachal Pradesh, Jammu and Kashmir, Manipur, Maharashtra, Meghalaya, Nagaland, Punjab, Rajasthan, Sikkim, Uttar Pradesh [Afghanistan, China, Myanmar].

Habit. Perennial.

***Triplopogon* Bor, Kew Bull. 1954: 52. 1954**

Type. *Triplopogon spathiflorus* (Hook. f.) Bor (*Ischaemum spathiflorum* Hook. f.).

1240. *Triplopogon ramosissimus* (Hack.) Bor, Kew Bull. 1954: 501. 1954

Ischaemum ramosissimum Hack., Monogr. Phan. [A. DC. & C. DC.] 6: 249. 1889. Type: "Asia (Hugel in h. vind, no 1977, sine dubio ex Ind. or.)" India: Bombay; *Jacquemont* 797 (K).

Ischaemum spathiflorum Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 138. 1896. Type: India: Bombay, Hills of Salsette Island; *Jacquemont* no. 797

Sehima spathiflora (Hook. f.) Blatt. & McCann, J. Bombay Nat. Hist. Soc. 32: 23. 1927 (as "spathiflorum")

Triplopogon spathiflorus (Hook. f.) Bor, Kew Bull. 1954: 54. 1954

Distribution. Maharashtra.

Habit. Annual.

***Tripsacum* L., Syst. Nat., ed. 10. 2: 1261. 1759**

Lectotype. *Tripsacum dactyloides* (L.) L. (*Coix dactyloides* L.). LT designated by Hitchcock in Contr. U. S. Natl. Herb. 12: 124. 1908.

1241. *Tripsacum dactyloides* (L.) L., Syst. Nat. ed. 10. 2: 1261. 1759

Coix dactyloides L., Sp. Pl. 2: 972. 1753. Type: “Habitat in America.” Lectotype: Herb. Linn. No. 1097.1 (LINN). LT designated by Hitchcock in Contr. U. S. Natl. Herb. 12: 124. 1908.

Coix angulata Mill., Gard. Dict., ed. 8. 1768. *Coix* no. 2.

Dactylodes angulatum (L.) Kuntze, Revis. Gen. Pl. 2: 773. 1891

Ischaemum glabrum Walter, Fl. Carol. 249. 1788. Type: USA: South Carolina, No precise locality cited.

Tripsacum monostachyum Willd., Sp. Pl., ed. 4 [Willdenow] 4(1): 202. 1805. Type: “Habitat in Carolina meridionali.”

Distribution. India [also in Europe, North America]. Native to Central and North America.

Habit. Perennial.

Remarks. Distribution in India not recorded. Likely known only in cultivation.

1242. *Tripsacum laxum* Nash, N. Amer. Fl. 17: 81. 1909

Tripsacum fasciculatum Trin. ex Asch., Verh. Bot. Vereins Prov. Brandenburg 17:79, adnot. 1875, non (L.) Raspail, 1825. Lectotype: Mexico: Veracruz, Hacienda de la Laguna; 1836; *C.J.W. Schiede* 947; ILT: US-727179 (fragm. ex LE-TRIN)). LT designated by de Wet et al. Phytologia 33: 208. 1976.

Type. Southern Mexico: ‘Hacienda de la Laguna, Mexico.’

Distribution. Andhra Pradesh, Bihar, Kerala, Tamil Nadu [also in North America, South America]. Native to the Americas, introduced into India.

Habit. Perennial.

***Vossia* Wall. & Griff., J. Asiat. Soc. Bengal 5: 572. 1836, nom. cons.**

Type. *Vossia procera* Wall. & Griff., nom. illeg. (*Ischaemum cuspidatum* Roxb., *Vossia cuspidata* (Roxb.) Griff.).

1243. *Vossia cuspidata* (Roxb.) Griff., Not. Pl. Asiat. 3: 70, Index 12. 1851 (as “cuspidatum”)

Ischaemum cuspidatum Roxb., Fl. Ind. (Carey and Wallich ed.) 1: 325. 1820. Type: “A native of Bengal, where it is found floating on pools of sweet water and blossoming about the close of the rains in October.”

Vossia procera Wall. & Griff., J. Asiat. Soc. Bengal 5: 573. 1836, nom. illeg. superfl.

Distribution. Assam, West Bengal [Myanmar].

Habit. Perennial.

Zea L., Sp. Pl. 2: 971. 1753

Type. *Zea mays* L.

1244. *Zea mays* L., Sp. Pl. 2: 971. 1753 ssp. *mays*

Mays zea Gaertn., Fruct. Sem. Pl. 1: 6, t. 1. 1789

Zea erythrolepis Bonaf., Hist. Nat. Mais 30. t. 5. 1836. Type: “Le Mais a farle rouge cultive sur les rives du Missouri.”

Zea hirta Bonaf., Ann. Sci. Nat. (Paris) 17: 158. 1829

Zea saccharata Sturtev., New York Agric. Exp. Sta. Bull. 156. 1885. Type: Group name for “Sweet corns.”

Zea segetalis Salisb., Prodr. Stirp. Chap. Allerton 28. 1796, nom. superfl. & illeg.

Mays americana Baumg., Enum. Stirp. Transsilv. 3: 281. 1816, nom. superfl. & illeg.

Mayzea cerealis Raf., Med. Fl. 2: 241. 1830, nom. superfl. & illeg. for *Zea mays*

Type. “Habitat in America.” Lectotype: Herb. Linn. No. 1096.1 (LINN). LT designated by Iltis & Doebley in Amer. J. Bot. 67: 1001. 1980.

Distribution. Andhra Pradesh, Assam, Bihar, Delhi, Goa, Gujarat, Himachal Pradesh, Karnataka, Madhya Pradesh, Maharashtra, Rajasthan, Tamil Nadu, Tripura, Uttar Pradesh [China, Pakistan, Sri Lanka]. Cultivated; derived from species native to Mexico.

Habit. Annual.

Subfamily Danthonioideae N.P. Barker & H.P. Linder, 2001

Danthonioideae includes 281 species described in the monograph by Linder et al. (2010). As such it is the only grass subfamily to have a complete species-level revision based on up-to-date phylogenetic data. The subfamily has no obvious morphological synapomorphy, although Verboom et al. (1994) have suggested that haustorial synergids may be universally shared and uniquely derived. However, this character is difficult to observe and has only been recorded for a subset of the genera. None of the species has any particular economic importance.

Taxonomic editor H. Peter Linder, University of Zurich, Switzerland.

***Cortaderia* Stapf, Gard. Chron. ser. 3., 22: 378. 1897, nom. cons.**

Type. *Cortaderia selloana* (Schult. & Schult.f.) Asch. & Graebn. (*Arundo selloana* Schult. & Schult. f.).

1245. *Cortaderia selloana* (Schult. & Schult. f.) Asch. & Graebn., Syn. Mitteleur. Fl. [Ascherson & Graebner]. 2(1): 325. 1900

Arundo selloana Schult. & Schult. f., Mant. 3 (Schultes & Schultes f.) Add. i Mant. cl. iii: 605. 1827. Type: Brazil: Monte Video; *F. Sellow* 316 (B).

Gynerium argenteum Nees, Fl. Bras. Enum. Pl. 2(1): 462. 1829. Type: “Habitat in Sebastianopolin et in provincia S. Pauli”; *Martius* s.n. (B). Uruguay: ad Monte-Video; *Sellow* 570 (B).

Cortaderia argentea (Nees) Stapf, Gard. Chron. ser. 3, 22: 396. 1897

Cortaderia dioica Speg., Anales Mus. Nac. Buenos Aires ser. 2, 7: 194. 1902

Arundo dioeca Spreng., Syst. Veg. (ed. 16) [Sprengel] 1: 361. 1824 (“1825”), non *A. dioica* Lour., 1790. Type. “Monte Video. *Sello* [s.n., s.d.]”

Distribution. Tamil Nadu; cultivated [China]. Native to South America.

Habit. Perennial.

Remarks. It is unclear whether this species is naturalized anywhere in India. Taxonomic editor Linder comments that *Cortaderia dioica* and *Arundo dioeca* are both based on the same type as *Arundo selloana*.

***Schismus* P. Beauv., Ess. Agrostogr. 73. 1812**

Lectotype. *Schismus marginatus* P. Beauv., nom. illeg. (*Festuca calycina* Loefl., *Schismus calycinus* (Loefl.) K. Koch). LT designated by Pfeiffer, Nomencl. Bot. 2: 1075. 1874.

1246. *Schismus arabicus* Nees, Fl. Afr. Austral. Ill. 422. 1841

Schismus marginatus sensu Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 336. 1896, non P. Beauv., 1812

Type. Egypt: Chabba, “In valle Hamme Arabiae pereaeae; March 21, 1835; *Schimper* 391 (W).

Distribution. Jammu and Kashmir, Ladak [Afghanistan, China, Pakistan].

Habit. Annual.

Remarks. Distribution in India fide Naithani (1990).

1247. *Schismus barbatus* (L.) Thell., Bull. Herb. Boissier Ser. 2. 7: 391. 1907

Festuca barbata L., Demonstr. Pl. 3. 1753. Type: "Habitat in Hispania." Lectotype: Herb. Linn. No. 92.26 (LINN). LT designated by Scholz in Cafferty et al. (ed.), Taxon 49: 250. 2000.

Festuca calycina Loebl., Iter. Hisp. 116. 1758. Type: Not given.

Schismus calycinus (Loebl.) K. Koch, Linnaea 21(3): 397. 1848

Schismus brevifolius Nees, Fl. Afr. Austral. Ill. 422. 1841. Type: South Africa: "In monte ad Bokpoort", alt. 4500 ft.; *Drège s.n.* (BM).

Schismus fasciculatus P. Beauv., Ess. Agrostogr. 74. t. 15. f. 4. 177. 1812. Type: "Plante communiqué par M. Persoon et M. Balbis."

Distribution. Northwest India; specific states not recorded [Afghanistan, China, Pakistan].
Habit. Annual.

***Tenaxia* N.P. Barker & H.P. Linder, Ann. Missouri Bot. Gard. 97(3): 350. 2010**

Type. *Tenaxia stricta* (Schrad.) N.P. Barker & H.P. Linder (*Danthonia stricta* Schrad.).

1248. *Tenaxia cachemyriana* (Jaub. & Spach) N.P. Barker & H.P. Linder, Ann. Missouri Bot. Gard. 97(3): 352. 2010

Danthonia cachemyriana Jaub. & Spach, Ill. Pl. Orient. 4: 46. t. 331. 1851. Type: India: Kashmir ["Cachemyriani"]; August, 1831; *Jacquemont s.n.* (P).

Danthonia exilis Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 281. 1896. Type: India: Kashmir, Tilail and Bargil, alt. 9000–11000 ft.; *C.B. Clarke 30684 (K)*. Gurail, alt. 8000–9000 ft.; *Duthie 12591 (K)*.

Danthonia schneideri Pilg. var. *minor* (Hook. f.) Karthik. in S. Karthikeyan et al., Fl. Ind. ser. 4, 1 (Monocotyledon): 204. 1989

Danthonia cachemyriana Jaub. & Spach var. *minor* Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 282. 1896. Type: India: Sikkim, Yeumting, 12000 ft.; September 2, 1849; *Danthonia 2 Herb. R. Strachey & J.E. Winterbottom (K)*.

Distribution. Jammu and Kashmir, Sikkim, Uttar Pradesh, Uttarakhand [Afghanistan, Bhutan, China, Nepal, Pakistan].
Habit. Perennial.

1249. *Tenaxia cumminsii* (Hook.f.) N.P. Barker & H.P. Linder, Ann. Missouri Bot. Gard. 97(3): 352. 2010

Danthonia cumminsii Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 282. 1896. Type: Bhutan: Guatong in the Sikkim frontier, alt. 12000 ft.; *Cummins s.n.* (K).

Danthonia schneideri Pilg., Repert. Spec. Nov. Regni Veg. 17: 131. 1921. Type: China: Yunan, Lichiang, alt. 13000 ft.; September, 1914; *C. Schneider 2342* (B).

Danthonia jacquemontii Bor, Kew Bull. 1952: 80–81. 1952, nom. invalid

Distribution. Himachal Pradesh, Jammu and Kashmir, Sikkim, Uttar Pradesh, Uttarakhand [China, Pakistan].

Habit. Perennial.

Subfamily Chloridoideae Kunth ex Beilschm., 1833

Plants annual or perennial, rhizomatous, stoloniferous, or caespitose. Leaves, inflorescences, and spikelets variable, with no obvious shared morphological character. Glumes 2, disarticulation above the glumes.

Chloridoideae includes over 1700 species, of which all but two (the southern African *Ellisochloa papposa* and *E. rangei*) exhibiting C₄ photosynthesis and associated radiate chlorenchyma in the leaves (Peterson et al. 2011). Many chloridoids have characteristic microhairs in which the apical cell is enlarged and bulbous (VandenBorre and Watson 1997). Although the subfamily is definitely monophyletic, it is unclear which morphological characters are synapomorphic (Kellogg 2015b). Members of the subfamily are among the most drought-tolerant of the grasses, and a few (e.g. *Oropetium* spp., *Sporobolus stapfianus*) are so-called resurrection plants, which are able to dry out almost completely and then resume photosynthesis upon rewatering (VanBuren et al. 2015; Yobi et al. 2017). The subfamily includes few crop species, but *Eragrostis tef* (tef) and *Eleusine coracana* (finger millet) are particularly important in parts of Africa where productivity is critical in the face of drought. A set of phylogenetic studies by Peterson and colleagues (Peterson et al. 2007, 2010a, 2010b, 2011, 2012, 2014a; 2014b, 2015; 2016; Snow and Peterson 2012a, 2012b) has provided considerable insight into the phylogeny and generic limits in this subfamily.

Taxonomic editor Paul M. Peterson, Smithsonian Institution, Washington, DC.

Incertae sedis

***Indopoa* Bor, Kew Bull. 1958: 225. 1958**

Type. *Indopoa paupercula* (Stapf) Bor ex Ramamoorthy (*Tripogon pauperculus* Stapf).

1250. *Indopoa paupercula* (Stapf) Bor ex Ramamoorthy, Fl. Hassan Dist. [Saldanha & Nicolson] 735. 1976

Tripogon pauperculus Stapf, Hooker's Icon. Pl. 25: t. 2442. 1896. Type: India: Bombay, Western Ghats; September 20, 1895; *G.M. Woodrow s.n.* (K).

Distribution. Karnataka, Kerala, Maharashtra, Tamil Nadu.

Habit. Annual.

Remarks. Soreng et al. (2017) place this taxon in Chloridoideae, incertae sedis.

***Myriostachya* (Benth.) Hook. f., Fl. Brit. India (J.D. Hooker). 7: 327. 1896**

Eragrostis sect. *Myriostachya* Benth., J. Linn. Soc., Bot. 19: 117. 1881

Type. *Myriostachya wightiana* (Nees) Hook. f. (*Leptochloa wightiana* Nees ex Steud.).

1251. *Myriostachya wightiana* (Nees) Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 327. 1896

Leptochloa wightiana Nees, Syn. Pl. Glumac. (Steudel) 1: 209. 1854. Type: India; *Wight s.n.* as *Dineba verticillata*

Eragrostis wightiana (Nees) Benth., J. Linn. Soc., Bot. 19: 117. 1881

Myriostachya wightiana (Nees) Hook. f. var. *longispicula* Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 328. 1896. Syntypes: MalayPenang; *Curtis s.n.* Sri Lanka: Kottiyar; *Trimen s.n.*

Myriostachya longispicula (Hook. f.) Senaratna, Grasses of Ceylon (Perad. Man. No. 8) 66. 1956

Distribution. Andhra Pradesh, Madhya Pradesh, Odisha, Tamil Nadu, West Bengal [Sri Lanka].

Habit. Perennial.

Remarks. Soreng et al. (2017) place this taxon in Chloridoideae incertae sedis.

***Silentvalleya* V.J. Nair, Sreek., Vajr. & Bhargavan, J. Bombay Nat. Hist. Soc. 79: 654. 1983 ("1982")**

Type. *Silentvalleya nairii* V.J. Nair, Sreek., Vajr. & Bhargavan.

1252. *Silentvalleya chandwadensis*, Gosavi, B.R. Pawar & S.R. Yadav, Kew Bull. 67(3): 545. 2012

Type. India, Maharashtra, Nasik, Chandwad Ghat, 20°20'41.08"N, 74°15'01.07"E, 770 m alt., 10 Oct. 2010, *SUK-2997*.

Distribution. Maharashtra.

Habit. Perennial.

1253. *Silentvalleya nairii* V. J. Nair, Sreek., Vajr. & Bhargavan, J. Bombay Nat. Hist. Soc. 79: 654–657. f. 1. 1983 (“1982”)

Distribution. Kerala.

Habit. Perennial.

Remarks. Soreng et al. (2017) place this taxon in Chloridoideae incertae sedis.

Tribe Centropodieae P.M. Peterson, N.P. Barker & H.P. Linder, 2011

Plants perennial, caespitose or rhizomatous. Lemma with 9 veins, with hairs tufted, in a transverse row, the apex with two deep lobes, awned from the sinus, the awn straight or geniculate.

***Centropodia* (R. Br.) Rchb., Consp. Regn. Veg. 212a. 1828**

Lectotype. *Centropodia forskaolii* (Vahl) Cope (“forskalii”) (*Avena forskaolii* Vahl (“forskålei”)).

1254. *Centropodia forskaolii* (Vahl) Cope, Kew Bull. 37(4): 658. 1983 (“forskalii”)

Avena forskaolii Vahl, Symb. Bot. (Vahl) 2: 25. 1791 (“forskålei”)

Asthenatherum forskaolii (Vahl) Nevski, Trudy Sredne-Aziatsk. Gosud. Univ., Ser. 8b, Bot. 17: 8. 1934

Avena pensylvanica Forssk., Fl. Aegypt.-Arab. 23. 1775, non L., 1753. Type: “In desertis Kahirinis”; *Forsskal s.n.* (C).

Distribution. Jammu and Kashmir [Pakistan].

Habit. Perennial.

Tribe Triraphideae P.M. Peterson, 2010

Plants annual or perennial. Leaves with the ligule a fringe of hairs. Lemmas with pubescence on the lateral veins.

***Neyraudia* Hook. f., Fl. Brit. India (J.D. Hooker). 7: 305. 1896**

Type. *Neyraudia madagascariensis* Hook. f., nom. illeg. (*Arundo madagascariensis* Kunth, nom. illeg.; *Donax thuarii* P. Beauv.).

1255. *Neyraudia arundinacea* (L.) Henrard, Meded. Rijks-Herb. 58: 8. 1929, in obs.

Aristida arundinacea L., Mant. Pl. Altera 186. 1771. Type: "Habitat in India orientali. Koenig." Lectotype: *Herb. Linn. No. 98.8* (LINN). LT designated by Hubbard in Milne-Redhead and Polhill (ed.), *Fl. Trop. E. Africa, Gramineae* 1: 133. 1970.

Arundo madagascariensis Kunth, Révis. Gramin. 1: 273. t. 48. 1830. Type: "Crescit in Madagascaria."

Neyraudia madagascariensis (Kunth) Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 305. 1896

Distribution. Kerala, Maharashtra, Punjab, Uttar Pradesh [China, Nepal, Pakistan].

Habit. Perennial.

1256. *Neyraudia reynaudiana* (Kunth) Keng ex Hitchc., Amer. J. Bot. 21(3): 131. 1934

Arundo reynaudiana Kunth, Révis. Gramin. 1: 275. t. 49. 1830. Type: "Crescit in Pegu. Legit cel Reynaud."

Arundo zollingeri Buse, Pl. Jungh. 343. 1854. Type: Indonesia: Java; *Zollinger* 337, 380 (P).

Neyraudia madagascariensis (Kunth) Hook. f. var. *zollingeri* Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 305. 1896. Type: Sikkim Himalaya, Assam, Bengal, Khasia Hills, Chittagong, Tenasserim, Penang

Phragmites zollingeri Steud., Syn. Pl. Glumac. 1: 196. 1854. Type: Java; *Zollinger* 337

Distribution. Arunachal Pradesh, Assam, Meghalaya, Sikkim, West Bengal [Bangladesh, Bhutan, China, Myanmar, Nepal].

Habit. Perennial.

Tribe Eragrostideae Stapf, 1898

Plants annual or perennial, rhizomatous, stoloniferous, or caespitose. Ligule generally a fringe of hairs but sometimes membranous. Spikelets with 1 to many flowers, the callus often pubescent. Lemma generally glabrous, with 3 veins, although up to 13 veins in a few species, the apex generally entire but occasionally mucronate or awned.

***Enneapogon* Desv. ex P. Beauv., Ess. Agrostogr. 81, 161. 1812**

Lectotype. *Enneapogon desvauxii* Desv. ex P. Beauv. LT designated by Hitchcock in U.S. Dept. Agric. Bull. 772: 83. 1920.

1257. *Enneapogon cenchroides* (Licht.) C.E. Hubb., Bull. Misc. Inform. Kew 1934: 119. 1934

Pappophorum cenchroides Licht., Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 616. 1817. Type: “Habit in terra coranarum inter Haigarieb et Leeuwenkuil.” South Africa: near Vaal Rivier; *Lichtenstein s.n.* (B).

Enneapogon mollis Lehm., Nov. Stirp. Pug. 3: 40. 1831. Type: “Habitat in Promontorio Bonae Spei, in terrae tractu, qui vocatur Beaufort” South Africa; *Ecklon s.n.*

Pappophorum robustum Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 302. 1896. Type: India: Upper Gangetic plain, Hissar; *Drummond 3004, 3007* (K).

Distribution. Rajasthan, Punjab, Uttar Pradesh [Pakistan].

Habit. Tufted annual, occasionally with a few perennating shoots at the base.

1258. *Enneapogon desvauxii* P. Beauv., Ess. Agrostogr. 82. t. 16 f. 11. 1812

Pappophorum brachystachyum Jaub. & Spach, Fl. Ill. pl. orient. 4:34, t. 324. 1851; Ann. Sci. Nat., Bot. Ser. 3. 14: 365. 1851 (“1850”)

Enneapogon brachystachyus (Jaub. & Spach) Stapf, Fl. Cap. (Harvey) 7: 654–655. 1900

Lectotype. P. Beauv., Ess. Agrost. t. 16. f. 11. 1812. LT designated (as type) by Ali Chaudahry, Grass. Saudi Arabia 221. 1989.

Distribution. Rajasthan [China, Pakistan].

Habit. Annual or perennial.

1259. *Enneapogon persicus* Boiss., Diagn. Pl. Orient. ser. 1, 1(5): 71. 1844

Pappophorum persicum (Boiss.) Steud., Syn. Pl. Glumac. 1: 200. 1854

Pappophorum aucheri Jaub. & Spach, Ill. Pl. Orient. 4: 32. t. 323. 1851. Type: Persia; *Aucher-Eloy 5440* (error for 5430? vide Kew Bull. 22: 400. 1968) (P).

Pappophorum turcomanicum Trautv., Trudy Imp. S.-Peterburgsk. Bot. Sada 1: 27. 1871. Type: "Ind Turcomania, prope Krasnowodsk (Radde)." Russia: Turkmenistan; *Radde s.n.*

Pappophorum schimperianum Hochst. ex A. Rich., Tent. Fl. Abyss. 2: 403. 1850–1851. Type: "Crescit in collibus siccis prope Adoua, mense Septembre (Schimper)." Ethiopia: Adoua; *Schimper 323* (K).

Enneapogon schimperanus (Hochst. ex A. Rich.) Renvoize, Kew Bull. 22: 400. 1968

Pappophorum elegans Nees, Syn. Pl. Glumac. (Steudel) 1: 199. 1854

Enneapogon elegans (Nees) Stapf, Bull. Misc. Inform. Kew 1907: 224. 1907

Type. Persia; *Aucher-Eloy 5430* (P).

Distribution. Rajasthan [Afghanistan, China, Myanmar, Pakistan].

Habit. Perennial.

***Eragrostis* Wolf, Gen. Pl. (Wolf) 23. 1776**

Lectotype. *Eragrostis minor* Host (Icon. Descr. Gram. Austriac. 4: 15. 1809) (*Poa eragrostis* L.). LT designated by Pfeiffer, Nomencl. Bot. 1(2): 1226. 1874–1875.

Notes. Taxonomic editors for *Eragrostis*: Amanda Ingram, Wabash College; P. (Parigi) Venkateswara Prasanna and Alok R. Chorghe.

1260. *Eragrostis aspera* (Jacq.) Nees, Fl. Afr. Austral. Ill. 408. 1841

Poa aspera Jacq., Hort. Bot. Vindob. 3: 32, t. 56. 1777. Type: India: "Cultivated in Europe with seed from India." (W).

Poa paniculata Roxb., Fl. Ind. (Carey and Wallich ed.) 1: 341. 1820. Type: India; *Roxburgh s.n.*

Eragrostis paniculata (Roxb.) Steud., Syn. Pl. Glumac. 1: 266. 1854

Eragrostis laxiflora Schrad., Linnaea 12: 451. 1838, nom. nud. Type: *Drege 4285* (LE).

Distribution. Andhra Pradesh, Karnataka, Madhya Pradesh, Maharashtra, Odisha, Rajasthan, Tamil Nadu [Malayasia, Sri Lanka, Africa].

Habit. Caespitose annual.

1261. *Eragrostis atrovirens* (Desf.) Trin. ex Steud., Nomencl. Bot., ed. 2 (Steudel) 1: 562. 1840

Poa atrovirens Desf., Fl. Atlant. 1: 73. t. 14. 1798. Type: Algeria: Barbaria, "in arvis incultis prope La Calle"; *Desfontaines 160* (FI).

Poa biformis Kunth, Révis. Gramin. 2: 471. t. 149. 1831. Type: “Crescit in Senegambia.”

Eragrostis biformis (Kunth) Benth., Niger Fl. 568. 1849

Eragrostis bromoides Jedwabn., Bot. Arch. 5(3–4): 190. 1924, non (Vahl) Steud., 1854.

Type: Africa: Sudan Central, “In paludibus flum. Bailli”; *Chevalier* no. 8588

Eragrostis atroviridis Maire, Bull. Soc. Hist. Nat. Afrique N. 28(6): 385. 1937, nom. superfl. & illegit. for *Poa atrovirens*

Distribution. Andaman and Nicobar Islands, Andhra Pradesh, Assam, Bihar, Chhattisgarh, Jammu and Kashmir, Himachal Pradesh, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Odisha, Punjab, Rajasthan, Sikkim, Tamil Nadu, Uttar Pradesh, Uttarakhand [China, Myanmar, Nepal, Sri Lanka, Africa].

Habit. Perennial.

1262. *Eragrostis burmanica* Bor, Kew Bull. 6(2): 166. 1951

Type. Myanmar: Prome District, 20 July 1948, U. Thein Lwin 582 (K)

Distribution. Kerala.

Habit. Perennial.

1263. *Eragrostis cilianensis* (All.) Vignolo ex Janch., Mitt. Naturwiss. Vereins Univ. Wien 5(9): 110. 1907

Poa cilianensis All., Fl. Pedem. 2: 246, t. 91, f. 2. 1785. Type: “In agro patrio Ciliani legit Cl. Bellardi.” Lectotype: Italy: Ciliani; *Bellardi* s.n. (TO-8242 (photo, K)). LT designated by Vignolo, Malpighia 18: 380. 1904.

Briza eragrostis L., Sp. Pl. 1: 70. 1753. Type: “Habitat in Europa australi ad agrorum versuras.” Lectotype: *Herb. Burser I: 10* (UPS). LT designated by Clayton in Polhill (ed.), Fl. Trop. E. Africa, Gramineae 2: 232. 1974.

Eragrostis eragrostis (L.) MacMill., Metasp. Minnesota Valley 75. 1892, nom. invalid.

Megastachya eragrostis (L.) P. Beauv. ex Roem. & Schult., Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 584. 1817

Eragrostis costata F. Turner, Proc. Linn. Soc. New South Wales 30: 91. 1905. Type: Australia: New South Wales, Breeza Plains, Werris Creek, Namoi River and near Tomworth; *Fred Turner* s.n.

Eragrostis flexuosa Steud., Syn. Pl. Glumac. 1: 266. 1854. Type: India; *Roxburgh Icon.* 341

Eragrostis megastachya (Koeler) Link, Hort. Berol. [Link] 1: 187. 1827

Eragrostis megastachya (Koeler) Link var. *cilianensis* (All.) Asch. & Graebn., Syn. Mitteleur. Fl. [Ascherson & Graebner]. 2(1): 371. 1900 [This combination is not made here.]

Eragrostis minor Host var. *major* Beck, Fl. Nieder-Osterreich 1: 88. 1890

- Eragrostis poaeoides* P. Beauv. ex Roem. & Schult. var. *megastachya* A. Gray, Manual (Gray), ed. 2. 563. 1856
- Eragrostis minor* Host var. *megastachya* (A. Gray) Burt Davy, Fl. W. Calif. 60. 1901
- Eragrostis polymorpha* Roem. & Schult., Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 575. 1817
- Eragrostis schweinfurthiana* Jedwabn., Bot. Arch. 5: 194. 1924. Type: "Orae nubicae, in montibus Ssoturba, Gebel Schettoi; *Schweinfurth* 1492"
- Eragrostis starosselskyi* Grossh., Bot. Mater. Gerb. Glavn. Bot. Sada RSFSR 4: 18. 1923. Syntypes: TranscaucPr. Tiflis; July 20, 1921; *Karajazy s.n.* July 20, 1922; *V. Starosselsky s.n.* Turkestan: Buchara; *N. Troitzky s.n.*
- Eragrostis vulgaris* Coss. & Germ. var. *megastachya* Coss. & Germ., Fl. Env. Paris 2: 641. 1845
- Eragrostis vulgaris* Coss. & Germ. ssp. *major* Rouy, Fl. France (Rouy) 14: 262. 1913
- Eragrostis major* Host, Icon. Descr. Gram. Austriac. 4: 14. t. 24. 1809
- Erosion ciliare* Lunell, Amer. Midl. Naturalist 4: 221. 1915. Type: Based on *Poa cili-anensis* All.
- Megastachya oblonga* (Moench) P. Beauv., Ess. Agrostogr. 167, 175. 1812
- Poa cachectica* Schumach., Kongel. Danske Vidensk. Selsk. Naturvidensk. Math. Afh. 3: 86. 1827. Type: Guinea; *Thonning s.n.*
- Poa eragrostis* (L.) Brot., Fl. Lusit. 1: 103. 1804, non L., 1753
- Poa roxburghiana* Schult., Mant. 2 (Schultes) 314. 1824. Type: India; *Roxburgh s.n.*
- Poa tortuosa* Spreng., Syst. Veg. (ed. 16) [Sprengel] 1: 345. 1824 ("1825"). Type: India orientalis
- Poa flexuosa* Roxb., Fl. Ind. (Carey and Wallich ed.) 1: 340. 1820, non Sm., 1800
- Poa megastachya* Koeler, Descr. Gram. (Koeler) 181. 1802, nom. superfl. & illeg. for *Briza eragrostis*
- Poa oblonga* Baumg., Enum. Stirp. Transsilv. 3: 238. 1817, nom. superfl. & illeg. for *Briza eragrostis*
- Poa polymorpha* J. Koenig ex Rottler, Ges. Naturf. Ferunde Berlin Neue Schriften 4: 194. 1803, non Wibel, 1799
- Briza oblonga* Moench, Methodus (Moench) 185. 1794, nom. superfl. & illeg. for *Briza eragrostis*
- Eragrostis articulata* De Wild., Bull. Jard. Bot. Etat 6: 58. t. 2. 1919, non (Schrank) Nees, 1829
- Briza megastachya* Hort. ex Roem. & Schult., Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 585. 1817, in syn.

Distribution. Andhra Pradesh, Bihar, Chhattisgarh, Delhi, Gujarat, Himachal Pradesh, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Punjab, Rajasthan, Tamil Nadu, Uttar Pradesh [China]. Naturalized; native to Europe.

Habit. Annual.

1264. *Eragrostis ciliaris* (L.) R. Br., *Observ. Congo* 59. 1818; in Tuckey, *Narr. Exped. Zaire* 478. 1818 var. *ciliaris*

Poa ciliaris L., *Syst. Nat.*, ed. 10. 2: 875. 1759. Type: “Habitat [in Jamaica.] *Sp. Pl.*, ed. 2. 1: 102. 1762” Lectotype: Browne, *Herb. Linn.* No. 87.66 (LINN). LT designated by Hitchcock in *Contr. U. S. Natl. Herb.* 12: 121. 1908.

Cynodon ciliaris (L.) Raspail, *Ann. Sci. Nat. (Paris)* 5: 302. 1825

Megastachya ciliaris (L.) P. Beauv., *Ess. Agrostogr.* 167, 174. 1812

Poa boryana Willd., *Enum. Pl. (Willdenow)* 1: 109. 1809. Type: “Habitat in insula Borboniae et Mauritii; *Bory do St. Vincent.*”

Eragrostis boryana (Willd.) Steud., *Nomencl. Bot.*, ed. 2 (Steudel) 1: 562. 1840

Megastachya boryana (Willd.) Roem. & Schult., *Syst. Veg.*, ed. 15 bis [Roemer & Schultes] 2: 592. 1817.

Poa lepida A. Rich., *Tent. Fl. Abyss.* 2: 424. 1850–1851. Type: “Crescit ad Pagum Ailet in Provincia Medat, mense Martio (Schimper).”

Eragrostis lepida (A. Rich.) Hochst. ex Steud., *Syn. Pl. Glumac.* 1: 269. 1854.

Eragrostis pulchella Parl., *Atti Congr. Sci. Ital.* 8: 586. 1846. Type: “Hab. in insula S. jacobi, valle S. doninici (*J.D. Hooker no. 81*, November, 1839).”

Poa amboinica L., *Mant. Pl.* 557. 1771. Type: Habitat in India.

Eragrostis lobata Trin., *Mém. Acad. Imp. Sci. St.-Pétersbourg, Sér. 6, Sci. Math.* 1: 396. 1830, nom. superfl. & illeg. for *Poa cylindrica* Roxb. Type: Africa: Mauritius Island, “V spp. Guin, *Ins. Franc.*”

Eragrostis villosa Trin., *Fund. Agrost. (Trinius)* 137. 1820, nom. superfl. & illeg. for *Poa ciliaris* L.

Eragrostis ciliaris sensu Stapf, *Fl. Brit. India* (*J.D. Hooker*). 7(22): 314. 1896 var. *ciliaris*, non (L) Link, 1827

Distribution. Andhra Pradesh, Bihar, Daman and Diu, Delhi, Goa, Gujarat, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Rajasthan, Tamil Nadu, Uttar Pradesh [China].

Habit. Annual.

1265. *Eragrostis ciliaris* (L.) R. Br. var. *brachystachya* Boiss., *Fl. Orient. (Boissier)* 5: 582. 1884

Type. “Hab. in arenosis littoris Egyptiaco-Arabici inter Kosseir et Ras Benass; *Schv.* 1091. Belutschia; *J.E. Stocks s.n.*”

Distribution. Punjab, Rajasthan [Egypt].

Habit. Annual.

1266. *Eragrostis ciliaris* (L.) R. Br. var. *clarkei* Stapf ex Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 315. 1896

Distribution. Delhi, Rajasthan.

Habit. Annual.

Remarks. Taxonomic editor Peterson questioned which characters are used to recognize this taxon.

1267. *Eragrostis ciliata* (Roxb.) Nees, Fl. Bras. Enum. Pl. 2(1): 512. 1829, in obs. (as “*Eragrostin ciliatam*”) [No reference to basionym]

Poa ciliata Roxb., Fl. Ind. (Carey and Wallich ed.) 1: 336. 1820. Type: Generally found in poor dry soil.

Megastachya rupestris Roem. & Schult., Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 592. 1817. Type: India orientalis; *B. Heyne s.n.*

Eragrostis rupestris (Roem. & Schult.) Steud., Syn. Pl. Glumac. 1: 265. 1854

Distribution. Andhra Pradesh, Bihar, Chhattisgarh, Delhi, Gujarat, Jharkhand, Kerala, Madhya Pradesh, Maharashtra, Odisha, Tamil Nadu [China, Myanmar, Sri Lanka].

Habit. Perennial.

1268. *Eragrostis coarctata* Stapf, Fl. Brit. India (J.D. Hooker). 7(22): 313. 1896

Type. India: Upper Gangetic Plain, Moradabad; *Thomson s.n.* Sikkim, Behar, Chit-tagong, Arracan and Myanmar. Central Provinces & Chota Nagpore; *Clarke s.n.*

Distribution. Andhra Pradesh, Assam, Bihar, Chhattisgarh, Jharkhand, Karnataka, Madhya Pradesh, Maharashtra, Odisha, Rajasthan, Sikkim, Tamil Nadu, Uttar Pradesh, Uttarakhand, West Bengal [Bangladesh, China, Myanmar, Nepal].

Habit. Perennial.

1269. *Eragrostis collinensis* Vivek, G.V.S. Murthy & V.J. Nair, Indian J. Forest. 36(3): 401. 2013

Type. India: Tamil Nadu, Nilgiri District, Avalanche, 1925 m 14 October 1972, K. Vivekanandan 42951 (holo: CAL; iso: MH).

Distribution. Kerala and Tamil Nadu.

Habit. Annual.

1270. *Eragrostis cumingii* Steud., Syn. Pl. Glumac. 1: 266. 1854

Eragrostis distans Hack., Publ. Bur. Sci. Gov. Lab. 35: 81. 1906 (“1905”). Type: Philippines: Kias, Benguet, Luzon; June, 1904; *Elmer* 6608

Type. Philippines; *Cuming Herb. no. 672 & 1104*.

Distribution. Kerala [China, Myanmar]. Naturalized; native to Australia.

Habit. Perennial.

Remarks. Record from Kerala fide Naithani (1990).

1271. *Eragrostis curvula* (Schrud.) Nees, Fl. Afr. Austral. Ill. 397. 1841

Poa curvula Schrad., Gött. Gel. Anz. 3: 2073. 1821. Type: South Africa: Cape Province, Cape of Good Hope; *Hesse s.n. in Herb. Trinius 2327.1 (2327.3?)* (holo PH?; LE, iso, microfiche IDC BT-16/1).

Distribution. Madhya Pradesh, Rajasthan, Tamil Nadu [China, Pakistan]. Naturalized; native to southern Africa.

Habit. Perennial.

1272. *Eragrostis deccanensis* Bor, Grasses Burma, Ceylon, India & Pakistan 507. 1960

Eragrostis phleoides Stapf, Fl. Brit. India (J.D. Hooker). 7(22): 313. 1896, non Hillebr., 1888

Eragrostis spicata (Heyne ex Stapf) Jedwabn., Bot. Arch. 5: 185. 1924, non Vasey, 1891

Type. India: Madras; *Narayanaswami 3027*. Madras; Numer. List [Wallich] no. 5015.

Distribution. Andhra Pradesh, Karnataka, Kerala, Odisha, Tamil Nadu.

Habit. Perennial.

1273. *Eragrostis diplachnoides* Steud., Syn. Pl. Glumac. 1: 268. 1854

Eragrostis interrupta P. Beauv. var. *diplachnoides* (Steud.) Stapf, Fl. Brit. India (J.D. Hooker). 7(22): 316. 1896

Type. Egypt: Nubia; *Hochstetter Herb. no. 346*.

Distribution. Karnataka, Tamil Nadu [Bangladesh, Sri Lanka].

Habit. Annual.

1274. *Eragrostis ferruginea* (Thunb.) P. Beauv., Ess. Agrostogr. 71, 162, 174. 1812

Poa ferruginea Thunb., in J. A. Murray, Syst. veg. ed. 14: 114. 1784. Type: Japan; *Thunberg s.n.* (UPS).

Distribution. Sikkim [Bhutan, China, Nepal].

Habit. Perennial.

1275. *Eragrostis gangetica* (Roxb.) Steud., Syn. Pl. Glumac. 1: 266. 1854

Poa gangetica Roxb., Fl. Ind. (Carey and Wallich ed.) 1: 341. 1820. Type: India: on the banks of the Ganges; *Roxburgh s.n.*

Eragrostis stenophylla Hochst. ex Miq., Nieuwe Verh. Eerste Kl. Kon. Ned. Inst. Wetensch. Amsterdam ser. 3, 4: 39. 1851, p.p. Type: India: Mangalor; *Metz no. 664*

Distribution. Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Chhattisgarh, Daman and Diu, Goa, Himachal Pradesh, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Odisha, Rajasthan, Tamil Nadu, Tripura, Uttar Pradesh, Uttarakhand, West Bengal [Myanmar, Sri Lanka].

Habit. Annual.

1276. *Eragrostis henryi* Vivek, G.V.S. Murthy & V.J. Nair, Nelumbo 54: 10. 2012.

Type. India: Tamil Nadu, Kanyakumari district, Near Anjugramam, 25 m a.m.s.l., 27 March 1979, *A. N. Henry 6156* (holotype CAL, isotypes: MH).

Distribution. Tamil Nadu (Kanyakumari).

Habit. Not reported.

1277. *Eragrostis jainii* Vivek, G.V.S. Murthy & V. J. Nair in Nelumbo 55: 1. 2013.

Type. India: Kerala, Kannur District, Manjeshwar, 100 m, 13 October 1979, *R. Ansari 64888* (holotype: CAL, isotype: MH).

Distribution. Kerala and Karnataka.

Habit. Annual or short-lived perennial.

1278. *Eragrostis japonica* (Thunb.) Trin., Mém. Acad. Imp. Sci. St.-Pétersbourg, Sér. 6, Sci. Math. 1: 405. 1830

Poa japonica Thunb., in J. A. Murray, Syst. veg. ed. 14: 114. 1784. Type: Japan: Kotsido, near Nagasaki; *Thunberg s.n.* (UPS).

Poa diarrhena Schult. & Schult. f., Mant. 3 (Schultes & Schultes f.) Add. i Mant. cl. iii: 616. 1827. Type: ‘Mant. II. p. 315. n. 100 a.’ ‘In Bengalia’.

Eragrostis diarrhena (Schult. & Schult. f) Steud., Syn. Pl. Glumac. 1: 266. 1854. Type: India: Bengal

Eragrostis interrupta P. Beauv. var. *tenuissima* Stapf, Fl. Brit. India (J.D. Hooker). 7(22): 316. 1896

Poa tenellula Kunth, Révis. Gramin. 1: 113. 1829. Type: India orientalis.

Eragrostis tenellula (Kunth) Steud., Syn. Pl. Glumac. 1: 279. 1854

Poa tenella sensu R. Br., Prodr. Fl. Nov. Holland. 1: 181. 1810, non L., 1753

Eragrostis tenuissima Schrad. ex Nees, Fl. Afr. Austral. Ill. 409. 1841, nom. nud.

Distribution. Andhra Pradesh, Assam, Bihar, Chhattisgarh, Gujarat, Himachal Pradesh, Jammu and Kashmir, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Nagaland, Odisha, Punjab, Rajasthan, Sikkim, Tamil Nadu, Uttar Pradesh, Uttarakhand, West Bengal [Bhutan, China, Myanmar, Nepal, Pakistan, Sri Lanka].

Habit. Annual or short-lived perennial.

1279. *Eragrostis lehmanniana* Nees, Fl. Afr. Austral. Ill. 402. 1841 var. *lehmanniana*

Type. “Ad rupes nudas prope Slengerfontein in collibus ad Nieuwe Hantom, alt. 4000–5000 ft.; Feb; *Drège s.n.*”.

Distribution. India; states not recorded [also in Africa, Mexico]. Introduced but not truly naturalized; native to southern Africa.

Habit. Perennial.

1280. *Eragrostis lehmanniana* Nees var. *chaunantha* (Pilg.) de Winter, Grass. Pastures South Africa 147. 1955

Eragrostis chaunantha Pilg., Bot. Jahrb. Syst. 40: 84. 1907. Type: Africa: Kalahari “Zwischen Kokong und Kang”; December 1904; *Schultze* 290

Distribution. India; states not recorded [also in Africa]. Introduced but not truly naturalized; native to southern Africa.

Habit. Perennial.

1281. *Eragrostis macilenta* (A. Rich.) Steud., Syn. Pl. Glumac. 1: 268. 1854

Poa macilenta A. Rich., Tent. Fl. Abyss. 2: 428. 1850–1851. Type: Abyssinie: Trigre, Adua; *Quartin-Dillon et Petit s.n.* (P).

Distribution. Tamil Nadu [also in the Middle East, Africa].

Habit. Annual.

Remarks. Record from Tamil Nadu fide Naithani (1990).

1282. *Eragrostis maderaspatana* Bor, Grasses Burma, Ceylon, India & Pakistan 509. 1960

Eragrostis willdenoviana Nees ex Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 322. 1896, non Nees ex Hook. & Arn., Bot. Beechey Voy. 252. 1838. Syntypes: India: Mysore; *Rottler s.n.*, *Heyne s.n.* Dindygul; *Wight s.n.* Sri Lanka; Trincomalee; *Glemie Ceylon Plant 3944*

Distribution. Andhra Pradesh, Karnataka, Kerala, Odisha, Tamil Nadu [Sri Lanka].

Habit. Annual.

1283. *Eragrostis minor* Host, Icon. Descr. Gram. Austriac. 4: 15. 1809) (as “*Eragrostin minorem*”)

Poa eragrostis L., Sp. Pl. 1: 68. 1753. Type: “Habitat in Italia supra muros. D. Baeck.” Lectotype: Baeck 7, Herb. Linn. No. 87.23 (LINN). LT designated by Clayton in Polhill (ed.), Fl. Trop. E. Africa, Gramineae 2: 234. 1974.

Eragrostis poaeoides P. Beauv., Ess. Agrostogr. 162 1812, nom. nud.

Eragrostis multiflora (Roxb.) Trin. var. *pappiana* Chiov., Ann. Bot. (Rome) 8(1): 65. 1903. Syntypes: Africa: Ethiopia, Samhar, Saati; March 8, 1892; *Terracciano & Pappi 2868, 2869* (P). Emberemi; March 28, 1892; *Pappi nn. 1190 & 1566*

Eragrostis pappiana (Chiov.) Chiov., Ann. Bot. (Rome) 8(3): 371. 1908

Distribution. Andhra Pradesh, Bihar, Chhattisgarh, Gujarat, Himachal Pradesh, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Punjab, Rajasthan, Tamil Nadu, Uttarakhand, West Bengal [China]. Naturalized; native to Europe.

Habit. Annual.

Remarks. Records from Madhya Pradesh, Maharashtra, and Rajasthan fide Naithani (1990).

1284. *Eragrostis multicaulis* Steud., Syn. Pl. Glumac. 1: 426. 1854

Eragrostis damiensiana (Bonnet) Thell., Repert. Spec. Nov. Regni Veg. 24: 323. 1928

Eragrostis pilosa (L.) P. Beauv. var. *damiensiana* Bonnet, Naturaliste 3: 412. 1881. Type: “France: Paris: dans la cour du ministere de la Guerre”; *M. Damiens s.n.*

Eragrostis peregrina Wiegand, Rhodora 19: 95. 1917, nom. & stat. nov.

Eragrostis pilosa (L.) P. Beauv. var. *condensata* Hack., Allg. Bot. Z. Syst. 7: 13. 1902 (“1901”). Type: Germany: Karlsruhe, Baden-Württemberg, alt. 400 ft.; July 17, 1900; *A. Kneucker* no. 115 (BAA-1072).

Glyceria airoides Steud., Syn. Pl. Glumac. 1: 287, 426. 1854, non (Koeler) Rchb., 1829 [Name emended]

Lectotype. Japan; *Burger s.n.* (L-908.97-2116). LT designated by Veldkamp in *Blumea* 47(1): 181. 2002.

Distribution. Karnataka, Maharashtra, Rajasthan, Sikkim, Uttarakhand [China].

Habit. Annual.

1285. *Eragrostis nigra* Nees, Syn. Pl. Glumac. (Steudel) 1: 267. 1854

Eragrostis atropurpurea Hochst. ex Steud., Syn. Pl. Glumac. 1: 267. 1854. Type: India; *R. F. Hohenacker Herb. no. 938*

Eragrostis paniculata sensu Thwaites, Enum. Pl. Zeyl. (Thwaites). 373. 1864, non (Roxb.) Steud., 1854

Type. Peninsular India.

Distribution. Andhra Pradesh, Assam, Bihar, Himachal Pradesh, Jammu and Kashmir, Karnataka, Kerala, Maharashtra, Manipur, Meghalaya, Nagaland, Odisha, Rajasthan, Sikkim, Tamil Nadu, Uttar Pradesh, Uttarakhand, West Bengal [Bhutan, China, Myanmar, Nepal, Sri Lanka].

Habit. Perennial.

1286. *Eragrostis nilgiriensis* Vivek., Murthy & V.J. Nair, Nordic Journal of Botany 31(6): 700. 2013

Type. India. Tamil Nadu, Nilgiri district, Coonoor (10°20'37.13" N, 76°47'40.98" E) 1700 m asl., 22 Oct 2011, *C. P Vivek 126153* (CAL). Isotypes: MH.

Distribution. Tamil Nadu.

Habit. Not recorded.

1287. *Eragrostis nutans* (Retz.) Nees ex Steud., Nomencl. Bot., ed. 2 (Steudel) 1: 563. 1840

Poa nutans Retz., Observ. Bot. (Retzius) 4: 19. 1786–1787. Type: “E Tranquebaria misit cel Koenig, ubi ad margines agrorum et in agris oryza ceis minus submerses sat frequens esse scripsit.” India: Tranquebaria; *Koenig s.n.* (BM).

Poa chariis Schult., Mant. 2 (Schultes) 314. 1824. Type: India; *Roxburgh s.n.*

Eragrostis chariis (Schult.) Hitchc., Lingnan Sci. J. 7: 193. 1931

Poa elegantula Kunth, Révis. Gramin. 1: 114. 1829

Eragrostis elegantula (Kunth) Nees, Syn. Pl. Glumac. (Steudel) 1: 266. 1854

Eragrostis stenophylla sensu Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 318. 1896, p.p., non Hochst. Ex Miq., 1851

Poa elegans Roxb., Fl. Ind. (Carey and Wallich ed.) 1: 339. 1820, non Poir., 1804

Distribution. Andhra Pradesh, Bihar, Chhattisgarh, Gujarat, Himachal Pradesh, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Rajasthan, Tamil Nadu, Uttar Pradesh, West Bengal [China, Sri Lanka].

Habit. Perennial.

1288. *Eragrostis paniciformis* (A. Braun) Steud., Syn. Pl. Glumac. 1: 268. 1854.

Poa paniciformis A. Braun, Flora 24: 274, 1841. Type: Ethiopia: 1841, *A. Braun s. n.* (lectotype K).

Distribution. Kerala.

Habit. Perennial.

1289. *Eragrostis papposa* (Roem. & Schult.) Duf. ex Steud., Nomencl. Bot., ed. 2 (Steudel) 1: 564. 1840

Megastachya papposa Roem. & Schult., Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 585. 1817. Type: "In monte Saguntino regni Valentiae Confer Scheuchz. Gram p. 192. Dufour." Spain: Sagunto; *Dufour s.n.* (NTM).

Eragrostis speirostachya Coss. & Dur., Vidensk. Meddel. Dansk Naturhist. Foren. Kjobenhavn 47. 1860. Type: not given.

Poa papposa Duf. ex Roem. & Schult., Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 585. 1817, nom. nud., pro. syn.

Eragrostis verticillata sensu Coss. ex Asch. & Graebn., Syn. Mitteleur. Fl. [Ascherson & Graebner]. 2(1): 370. 1900, non (Cav.) P. Beauv., 1812

Eragrostis rigidifolia Hochst. ex Engl., Abh. Königl. Akad. Wiss. Berlin 1891: 134. 1892, nom. nud.

Distribution. Andhra Pradesh, Punjab, Rajasthan [Pakistan].

Habit. Annual to short lived-perennial.

1290. *Eragrostis pilosa* (L.) P. Beauv., Ess. Agrostogr. 175. 1812

Poa pilosa L., Sp. Pl. 1: 68. 1753. Type: “Habitat in Italia.” Lectotype = “Gramen paniculis elegantissimis, majus, locustis purpureo-spadiceis, minoribus” in Scheuchzer, Agrostographia, 193. t. 4. f. 3. 1719. LT designated by Du Puy et al. in George et al. (ed.), Fl. Australia 50: 472. 1992. Epitype: Italy. an Wegen zwischen den Reisfeldern von Oldenico unweit Vercelli in Oberitalien; August 1–10, 1902; *A. Kneucker, Gram. Exsicc. XII, No. 344* (B). Epitype designated by Scholz in Cafferty et al. (ed.), Taxon 49: 256. 2000.

Eragrostis filiformis Link, Hort. Berol. [Link] 1: 191. 1827. Type: “Habitat in America boreali.”

Poa linkii Kunth, Révis. Gramin. 1: 113. 1829

Eragrostis linkii (Kunth) Steud., Syn. Pl. Glumac. 1: 273–274. 1854

Eragrostis tenuiflora Rupr. ex Steud., Syn. Pl. Glumac. 1: 268. 1854. Type: “Sennaar Nubiae. Hrbr. Fl. aeth. Kotsch nr. 185”

Poa senegalensis Desv., Opusc. Sci. Phys. Nat. 100. 1831, Hort.Par. ex Desf., 1829 (vide IPNI). Type: “Habitat in Africa.”

Eragrostis senegalensis sensu Chev., Rev. Bot. Appl. Agric. Trop. 14: 120. 1934, non Nees, 1834

Distribution. Andhra Pradesh, Arunachal Pradesh, Bihar, Chhattisgarh, Delhi, Goa, Gujarat, Himachal Pradesh, Jammu and Kashmir, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Punjab, Rajasthan, Sikkim, Tamil Nadu, Uttar Pradesh, Uttarakhand [China, Myanmar, Pakistan, Sri Lanka].

Habit. Annual.

1291. *Eragrostis plana* Nees, Fl. Afr. Austral. Ill. 390. 1841

Type. “Ad flumen prope Kachu et Zandplaat alt. 1500 ft., inter Geckau et Basche alt. 1500–2000.” *Drege s.n.*

Distribution. India [China]. Naturalized; native to southern Africa.

Habit. Perennial.

Remarks. The report of this species for India is dubious; documentation is lacking.

1292. *Eragrostis riparia* (Willd.) Nees, Fl. Bras. Enum. Pl. 2(1): 512. 1829

Poa riparia Willd., Ges. Naturf. Ferunde Berlin Neue Schriften 4: 185. 1803. Type: India: Madras

Megastachya riparia (Willd.) Roem. & Schult., Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 593. 1817

Eragrostis tenella (L.) P. Beauv. var. *riparia* (Willd.) Stapf, Fl. Brit. India (J.D. Hooker). 7(22): 315. 1896

Eragrostis plumosa (Retz.) Link var. *maritima* Thwaites ex Trimen, Syst. Cat. Fl. Pl. Ceylon 109. 1885, nom. nud. (cited C.P. 3944 only)

Poa amboinica sensu Retz., Observ. Bot. (Retzius) 4: 20. 1786–1787, non L., 1771

Distribution. Andhra Pradesh, Assam, Bihar, Chhattisgarh, Karnataka, Kerala, Maharashtra, Odisha, Rajasthan, Sikkim, Tamil Nadu, Uttar Pradesh, West Bengal [Myanmar, Sri Lanka].

Habit. Annual or short-lived perennial.

1293. *Eragrostis robusta* Stent, Bothalia 2(1b): 288. 1927

Eragrostis valida Stent, Bothalia 1(3): 172. 1923, non Pilg., 1916. Type: Maritzburg: Natal, Angus 2 (Govt. Herb. 13862)

Type. ‘The Maritzburg, Natal Angus 2’ (Govt. Herb. 13862.).

Distribution. India [also in Africa]. Naturalized; native to southern Africa.

Habit. Perennial.

Remarks. The report of this species for India is dubious; documentation is lacking. Taxonomic editor Ingram notes that this taxon is not included by Clayton et al. (2006 onwards), suggesting that it should probably be placed in synonymy.

1294. *Eragrostis rottleri* Stapf, Fl. Brit. India (J.D. Hooker). 7(22): 321. 1896

Syntypes. The Carnatio, Tranquebar; *Heyne s.n.*, *Rottler s.n.* as *Poa pauciflora* & *Eragrostis viscosa*; *Wight s.n.*

Distribution. Kerala, Tamil Nadu [Pakistan].

Habit. Annual.

1295. *Eragrostis santapaui* K.G. Bhat & Nagendran, Reinwardtia 10(2): 127, f. 1. 1985

Type. India: Karnataka State, Coorg District, Mercara, growing in moist soil; December 18, 1980; *K.G. Bhat 794 A* (CAL).

Distribution. Karnataka.

Habit. Annual.

1296. *Eragrostis schweinfurthii* Chiov., Annuario Reale Ist. Bot. Roma 8(3): 368–369. 1908 var. *schweinfurthii*

Syntypes. Eritrea: Ocule Cusai, bosco dell'Assare presso Halai, alt. 8000 ft.; September 30, 1902; *Pappi* 1961 (FT). Eritrea: gruppo dei monti Soyrá, mt. Mamahot verso il torrente Arigot, 8500–9200 ft.; August 23, 1902; *Pappi* 1245.

Distribution. Tamil Nadu [Sri Lanka].

Habit. Annual or short-lived perennial.

1297. *Eragrostis schweinfurthii* Chiov. var. *kiwuensis* (Jedwabn.) S. M. Phillips, Kew Bull. 42(4): 930. 1987

Eragrostis kiwuensis Jedwabn., Bot. Arch. 5: 206. 1924. Type: “Africa orientalis tropi., Kiwu, ad Karisimbi”; *Mildbraed* 1784

Distribution. Tamil Nadu [also in the Middle East, Africa].

Habit. Not reported.

1298. *Eragrostis subsecunda* (Lam.) E.Fourn., Mexic. Pl. 2: 118. 1886

Poa subsecunda Lam., Tabl. Encycl. 1: 184. 1791. Type: China.

Distribution. Assam, Kerala, Tamil Nadu [Bangladesh, China, Myanmar, Sri Lanka].

Habit. Perennial.

1299. *Eragrostis superba* Peyr., Sitzungsber. Kaiserl. Akad. Wiss., Math.-Naturwiss. Cl. 38: 584. 1860

Type. Africa: Angola, “in locis umbrosis prope Benguela ac Loanda”; *H. Wawra* 244 (W).

Distribution. Karnataka, Tamil Nadu [Pakistan]. Naturalized; native to tropical Africa.

Habit. Perennial.

1300. *Eragrostis tef* (Zucc.) Trotter, Boll. Soc. Bot. Ital. 1918(1): 62. 1918, in obs.

Poa tef Zucc., Diss. Ditef [unpaged]. 1775. Type: “cultivated at botanical garden in Florence, Italy from seed collected in “Abyssinia”; naturalized in the New World (Brazil), Ethiopia (Northeast Tropical Africa, Africa) “ (FI).

Poa abyssinica Jacq., Misc. Austriac. 2: 364. 1781. Type: Abyssinia.

Eragrostis abyssinica (Jacq.) Link, Hort. Berol. [Link] 1: 192. 1827 (as “abessinica”)

Distribution. Kerala, Madhya Pradesh, Maharashtra, Rajasthan, Tamil Nadu, Uttar Pradesh, Uttarakhand [also in Saudi Arabia, Africa, Europe, North America, South America]. Naturalized; native to tropical East Africa.

Habit. Annual.

Remarks. Records from Madhya Pradesh, Rajasthan and Tamil Nadu fide Naithani (1990).

1301. *Eragrostis tenella* (L.) P. Beauv., Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 576. 1817 var. *tenella*

Poa tenella L., Sp. Pl. 1: 69. 1753. Type: “Habitat in India.” Lectotype: *Herb. Linn. No.* 87.33 (LINN). LT designated by Mitra & Jain in Manilal (ed.), Bot. Hist. Hort. Malabaricus 151. 1980.

Megastachya tenella (L.) Bojer, Hortus Maurit. 369. 1837

Poa amabilis L., Sp. Pl. 1: 68. 1753. Type: “Habitat in India.” Lectotype: *Herb. Hermann 2: 59, No. 46* (BM-000621703). LT designated by Veldkamp in Cafferty et al. (ed.), Taxon 49: 254. 2000.

Eragrostis amabilis (L.) Wight & Arn., Cat. Indian Pl. [pt. 2]: 105, no. 1777. 1834

Poa plumosa Retz., Observ. Bot. (Retzius) 4: 20. 1786–1787. Type: “E. Tranquebaria misit amicis Koenig.” India: Tranquebaria; *Koenig in herb. Retzius 378* (LD).

Eragrostis plumosa (Retz.) Link, Hort. Berol. [Link] 1: 192. 1827

Eragrostis tenella (L.) P. Beauv. var. *plumosa* (Retz.) Stapf, Fl. Brit. India (J.D. Hooker). 7(22): 315. 1896

Distribution. Andaman and Nicobar Islands, Andhra Pradesh, Bihar, Chhattisgarh, Daman and Diu, Goa, Gujarat, Himachal Pradesh, Jharkhand, Karnataka, Kerala, Lakshadweep, Madhya Pradesh, Maharashtra, Odisha, Rajasthan, Sikkim, Tamil Nadu, Tripura, Uttar Pradesh, Uttarakhand, West Bengal [Sri Lanka, Myanmar].

Habit. Annual.

Remarks. Taxonomic editor Ingram notes that the name *Eragrostis amabilis* is used fairly commonly for this taxon, but *E. tenella* is the correct name. See also Peterson et al. (2018), who also suggest using *E. tenella*.

1302. *Eragrostis tenella* (L.) P. Beauv. var. *breviculmis* Stapf, Fl. Brit. India (J.D. Hooker). 7(22): 316. 1896

Type. India: Punjab, Behar.

Distribution. Bihar, Jharkhand, Odisha, Maharashtra, Punjab [Sri Lanka].

Habit. Annual.

1303. *Eragrostis tenella* (L.) P. Beauv. var. *insularis* C.E. Hubb., Bull. Misc. Inform. Kew 1939: 654. 1939

Type. Mauritius: Moka; *Vaughan* 1937.

Distribution. Kerala, Maharashtra, Rajasthan, Tamil Nadu, West Bengal [Sri Lanka, Mauritius, Bangladesh].

Habit. Annual.

Remarks. Records for Maharashtra and Rajasthan fide Naithani (1990).

1304. *Eragrostis tenuifolia* (A. Rich.) Hochst. ex Steud., Syn. Pl. Glumac. 1: 268. 1854

Poa tenuifolia A. Rich., Tent. Fl. Abyss. 2: 425. 1850–1851. Type: “Crescit in montosis provinciae Chire mense Octobre (Quartin Dillon), et in locis incultis valium prope Adoua mense Septembre (Schimper). Lectotype: Ethiopia: Adoam; January 1837 [September 18, 1837]; *Schimper* 92 (P). LT designated by S. Phillips in Fl. Ethiopia 7: 122. 1995.

Eragrostis parviglumis Hochst. ex Steud., Syn. Pl. Glumac. 1: 267. 1854. Type: India: Nilagiri; *Hochstetter* no. 936

Eragrostis collocarpa K. Schum in Engler, Pflanzenw. Ost-Afrikas C: 114. 1895. Type. “Holst n. 54, 3228, 8923). – Auf trockenen Grasplatzen und im gelichteten Hochwalde.”

Distribution. Andhra Pradesh, Bihar, Daman and Diu, Gujarat, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Rajasthan, Tamil Nadu, Uttar Pradesh [Myanmar].

Habit. Perennial.

1305. *Eragrostis tremula* Hochst. ex Steud., Syn. Pl. Glumac. 1: 269. 1854

Poa tremula Lam., Tabl. Encycl. 1: 185. 1791. Type: “E. Senegal, D. Roussillon. “Africa: Senegal; *Roussillon* s.n. (P-LAM).

Eragrostis rhachitricha Hochst. ex Miq., Nieuwe Verh. Eerste Kl. Kon. Ned. Inst. Wetensch. Amsterdam ser. 3, 4: 37. 1851. Type: India: Manglore; *Metz* no. 280

Poa multiflora Roxb., Fl. Ind. (Carey and Wallich ed.) 1: 340. 1820, non Forssk., 1775. Type: India: “It is found on dry elevated places.”

Eragrostis multiflora Trin., Mém. Acad. Imp. Sci. St.-Petersbourg, Sér. 6, Sci. Math. 1(4): 401. 1830

Eragrostis lamarckii Steud., Syn. Pl. Glumac. 1: 269. 1854, nom. nov. for *Poa tremula*, non *E. tremula*.

Type. Nubia; *Hochstetter Hrbr. un. it. no. 6.*

Distribution. Andhra Pradesh, Bihar, Chhattisgarh, Delhi, Goa, Gujarat, Himachal Pradesh, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Odisha, Punjab, Rajasthan, Tamil Nadu, Uttar Pradesh, West Bengal [Afghanistan, China, Myanmar, Sri Lanka].

Habit. Annual.

1306. *Eragrostis trichodes* (Nutt.) Alph. Wood, Class-book Bot. (ed. 1861). 796. 1861

Poa trichodes Nutt., Trans. Amer. Philos. Soc., ser. 2, 5: 146. 1835. Type: USA: Arkansas Territory, in brushy prairies and open alluvial lands; *Nuttall s.n.* (PH).

Eragrostis capillacea Jedwabn., Bot. Arch. 5: 196. 1924. Type: "Americae sept. Civit. Unitae, Nebraska centr., ad Plumer Ford, Dismal River, Thomas Co.; *Rydberg 1832*"

Eragrostis tenuis A. Gray, Manual (Gray), ed. 6. 661. 1890, non Steud., 1854

Distribution. India [also in North America]. Naturalized; native to North America.

Habit. Perennial.

Remarks. The report of this species for India is dubious; documentation is lacking.

1307. *Eragrostis unioides* (Retz.) Nees, Syn. Pl. Glumac. (Steudel) 1: 264. 1854 var. *unioides*

Poa unioides Retz., Observ. Bot. (Retzius) 5: 19. 1788 ("1789"). Type: "Communicavit Honor Koenig." India; *Koenig s.n.* (LD).

Poa rubens Lam., Tabl. Encycl. 1: 184. t. 45. f. 2. 1791. Type: "Ex India. Sonner. An. P. Amabilis." India: Mangalore; *Sonnerat s.n.* (P-LAM?).

Eragrostis rubens (Lam.) Hochst. ex Miq., Nieuwe Verh. Eerste Kl. Kon. Ned. Inst. Wetensch. Amsterdam ser. 3, 4: 38. 1851

Eragrostis amabilis sensu Stapf, Fl. Brit. India (J.D. Hooker). 7(22): 317. 1896, non Wight & Arn. ex Nees, 1838 (excluding syn *Poa amabilis* L. Sp. Pl. 1: 68. 1753)

Distribution. Andaman and Nicobar Islands, Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Chhattisgarh, Dadra and Nagar Haveli, Goa, Gujarat, Himachal Pradesh, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Meghalaya, Odisha, Sikkim, Tamil Nadu, Tripura, Uttar Pradesh, Uttarakhand, West Bengal [China, Myanmar, Nepal, Pakistan, Sri Lanka].

Habit. Annual or short-lived perennial.

1308. *Eragrostis unioides* (Retz.) Nees var. *tremula* Jacob, J. Bombay Nat. Hist. Soc. 47: 51. 1947

Type. India: Travancore, Tiruvalla, alt. 100 ft.; *K.C. Jacob s.n.* (MH-86288).

Distribution. Kerala, Tamil Nadu.

Habit. Annual or perennial.

Remarks. Record for Kerala fide Naithani (1990).

1309. *Eragrostis viscosa* (Retz.) Trin., Mém. Acad. Imp. Sci. St.-Pétersbourg, Sér. 6, Sci. Math. 1(4): 397. 1830

Poa viscosa Retz., Observ. Bot. (Retzius) 4: 20. 1786–1787. Type: “In glareosis aridis Malabariae minus frequens tempore calido viget. Cl. Koenig.” India: Malabar; *Koenig s.n.* (LD).

Eragrostis mangalorica Hochst. ex Miq., Nieuwe Verh. Eerste Kl. Kon. Ned. Inst. Wetensch. Amsterdam ser. 3, 4: 38. 1851. Type: India, Karnataka, Mangalore; *R.F. Hohenacker Herb. Metz no. 262*

Eragrostis tenella (L.) P. Beauv. var. *viscosa* (Retz.) Stapf, Fl. Brit. India (J.D. Hooker). 7(22): 315. 1896

Distribution. Andhra Pradesh, Assam, Bihar, Chhattisgarh, Daman and Diu, Dadra and Nagar Haveli, Delhi, Goa, Gujarat, Himachal Pradesh, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Rajasthan, Tamil Nadu, Uttar Pradesh, West Bengal [Myanmar, Nepal, Pakistan, Sri Lanka].

Habit. Annual.

1310. *Eragrostis zeylanica* Nees, Nov. Actorum Acad. Caes. Leop.-Carol. Nat. Cur., Suppl. 19(1): 204. 1843

Eragrostis elongata sensu Stapf, Fl. Brit. India (J.D. Hooker). 7(22): 319. 1896, non Jacq., 1813

Type. “In Ceylona, Macrae, Julio 1829 (Herb. Lindl. et Arnott.)” Sri Lanka; July 1829; *Macrae s.n.*

Distribution. Andaman and Nicobar Islands, Assam, Chhattisgarh, Kerala, Madhya Pradesh, West Bengal [Myanmar, Sri Lanka].

Habit. Perennial.

Tribe Zoysieae Benth., 1881

Ligule generally a fringe of hairs. Spikelets laterally compressed, with a single flower. Lower glume absent, or with no veins, or with only one vein. Lemma with one vein, awnless. Pericarp free from seed coat.

Note that the genera *Spartina* and *Crypsis* are derived from within *Sporobolus* so the two are combined here, following the work of Peterson et al. (2014b, 2014c).

***Sporobolus* R. Br., Prodr. Fl. Nov. Holland. 169. 1810**

Lectotype. *Sporobolus indicus* (L.) R. Br. (*Agrostis indica* L.). LT designated by Pfeiffer, Nomencl. Bot. 2: 1247. 1874.

1311. *Sporobolus africanus* (Poir.) A. Robyns & Tournay, Bull. Jard. Bot. État Bruxelles 25: 242. 1955

Agrostis africana Poir., Encycl. (Lamarck) Suppl. 1. 254. 1810. Type: South Africa: Cape Province; *Thunberg s.n.* (UPS).

Distribution. Tamil Nadu. Naturalized; native to Africa, Arabia.

Habit. Perennial.

1312. *Sporobolus airoides* (Torr.) Torr., Pacific Railr. Rep. 7, Pt. 3 (Parkes) 7: 21. 1856

Agrostis airoides Torr., Ann. Lyceum Nat. Hist. New York 1(1): 151–152. 1824. Type: “Hab. on the branches of the Arkansas, near Rocky Mountains.” USA: Colorado, headwaters of the Arkansas River; *E. James s.n.* (NY-327612).

Vilfa airoides (Torr.) Trin. ex Steud., Nomencl. Bot., ed. 2 (Steudel) 2: 766. 1841

Sporobolus diffusissimus Buckl., Proc. Acad. Nat. Sci. Philadelphia 1862: 90. 1862. Type: USA: Texas, Western Texas; *Wright 726*

Distribution. Rajasthan [also in North America]. Naturalized; native to North America.

Habit. Perennial.

Remarks. Locality in India fide Naithani (1990).

1313. *Sporobolus alterniflorus* (Loisel.) P. M. Peterson & Saarela, Taxon 63(6): 1236. 2014

Spartina alterniflora Loisel., Fl. Gall. 719. 1807. Type: “Habitat circa Baionam, in pascuis limosis ad ripas Aturi.”

Distribution. Gujarat, Maharashtra [China]. Naturalized; native to North America.

Habit. Perennial.

Remarks. Record for Maharashtra fide Naithani (1990).

1314. *Sporobolus capillaris* Miq., Nieuwe Verh. Eerste Kl. Kon. Ned. Inst. Wetensch. Amsterdam ser. 3, 4: 37. 1851

Sporobolus scabrifolius Bhide, J. Proc. Asiat. Soc. Bengal, n.s., 8: 312. 1912

Type. India: “Habitat in Peninsula Indiae orientalis”; *R. Wight s.n.* (Glasgow 3309).

Distribution. Bihar, Chhattisgarh, Karnataka, Madhya Pradesh, Maharashtra, Rajasthan, Tamil Nadu [Myanmar].

Habit. Annual.

Remarks. Records for Karnataka, Madhya Pradesh, Maharashtra and Tamil Nadu fide Naithani (1990).

1315. *Sporobolus coromandelianus* (Retz.) Kunth, Révis. Gramin. 1: 68. 1829

Agrostis coromandeliana Retz., Observ. Bot. (Retzius) 4: 19. 1786–1787. Type: “In aridis duris Malabariae legit indefessis Koenig.” India: Malabar, Naguhr, propre Sammelliota; 1782; *C.D.E. Koenig s.n.* (LD).

Vilfa coromandeliana (Retz.) P. Beauv., Ess. Agrostogr. 16: 147. 1812

Vilfa commutata Trin., Sp. Gram. [Trinius] 1: t. 10. 1823. Type: “V. sp. Ind. Or.” Klein ex Stephan ex Wildenow in Herb Trinius; November 15, 1799; India: Madras: Red Hills (LE).

Sporobolus commutatus (Trin.) Kunth, Enum. Pl. [Kunth] 1: 214. 1833

Vilfa roxburghii Nees ex Trin., Mém. Acad. Imp. Sci. Saint-Pétersbourg, Sér. 6, Sci. Math., Seconde Pt. Sci. Nat. 5: 59. 1839, nom. invalid, cited as synonym of *Vilfa commutata*

Vilfa roxburghiana Nees ex Wight., Cat. no. 1742. 1834, nom. nud.

Distribution. Andhra Pradesh, Bihar, Daman and Diu, Goa, Gujarat, Haryana, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Punjab, Odisha, Rajasthan, Tamil Nadu, Uttar Pradesh [Afghanistan, China, Myanmar, Pakistan, Sri Lanka].

Habit. Annual.

1316. *Sporobolus diandrus* (Retz.) P. Beauv., Ess. Agrostogr. 26, 147, 178. 1812

Agrostis diandra Retz., Observ. Bot. (Retzius) 5: 19. 1788 (“1789”). Type: “Missit cel. Koenig sub nomine Cinnae.” India; *J. Koenig s.n.* (LD).

Sporobolus indicus (L.) R. Br. var. *diandrus* (Retz.) Jovet & Guedes, Taxon 22(1): 163. 1973 (as “diander”)

Vilfa erosa Trin., Mém. Acad. Imp. Sci. Saint-Pétersbourg, Sér. 6, Sci. Math., Seconde Pt. Sci. Nat. 5(2): 86. 1839. Type: Sri Lanka; *Koenig s.n.* (LE-TRIN-1698.01). LT designated by Baaijens & Veldkamp in Blumea 35: 434. 1991.

Vilfa retzii Steud., Nomencl. Bot., ed. 2 (Steudel) 2: 768. 1841

Sporobolus diandrus (Retz.) P. Beauv. var. *major* Buse, Pl. Jungh. 3: 343. 1854. Type: Java: Cibogo; June; *Junghuhn s.n.* (L-903.342-96).

Sporobolus indicus (L.) R. Br. var. *major* (Buse) Baaijens, Blumea 35(2): 437. 1991

Distribution. Assam, Bihar, Maharashtra, Manipur, Meghalaya, Nagaland, Odisha, West Bengal [China, Myanmar, Nepal, Pakistan, Sri Lanka].

Habit. Perennial.

1317. *Sporobolus fertilis* (Steud.) Clayton, Kew Bull. 19: 291. 1965

Agrostis fertilis Steud., Syn. Pl. Glumac. 1: 170. 1854. Type: “Ex Hrbo. Musei Logd. Bat. Japonia.” Lectotype: Japan; *Burger s.n.* (L-908.97-171). LT designated by Baaijens & Veldkamp in Blumea 35: 437. 1991.

Sporobolus indicus (L.) R. Br. var. *fertilis* (Steud.) Jovet & Guedes, Taxon 22: 163. 1973

Distribution. Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Chhattisgarh, Gujarat, Himachal Pradesh, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Nagaland, Odisha, Rajasthan, Tamil Nadu, Uttar Pradesh, Uttarakhand, West Bengal [Bhutan, China, Myanmar, Nepal, Sri Lanka].

Habit. Perennial.

1318. *Sporobolus festivus* Hochst. ex A. Rich., Tent. Fl. Abyss. 2: 398. 1850–1851

Syntypes. “Crescit in ripis rivuli Mariam-Chawisto, mense November; Quartin Dillon.” Ethiopia: prope Tchelatcheranne July 31, 1840; *G.H.W. Schimper s.n.* (P). Ethiopia: in campis prope Avar Semmaka in provincia Chire; *Quartin Dillon s.n.* (P).

Distribution. Bihar, Maharashtra [Africa].

Habit. Perennial.

Remarks. Record for Maharashtra fide Naithani (1990).

1319. *Sporobolus fimbriatus* (Nees ex Trin.) Nees, Fl. Afr. Austral. Ill. 156. 1841

Vilfa fimbriata Nees ex Trin., Mém. Acad. Imp. Sci. Saint-Pétersbourg, Sér. 6, Sci. Math., Seconde Pt. Sci. Nat. 4(1–2): 69. 1840. Type: South Africa: Cape

Distribution. India [Africa].

Habit. Perennial.

Remarks. The report of this species for India is dubious; documentation is lacking.

1320. *Sporobolus hajrae* P. Umam. & P. Daniel, *Nordic J. Bot.* 18(5): 577. 1998

Type. India: Tamil Nadu, Chidambaranar District, Veppalodai seacoast, c. 25km from Tuticorin; July 30, 1995; *P. Daniel*; *P. Umamaheswari* 103594 (CAL).

Distribution. Tamil Nadu.

Habit. Annual.

1321. *Sporobolus helvolus* (Trin.) T.Durand & Schinz, *Consp. Fl. Afr.* [T.A. Durand & H. Schinz] 5: 820. 1894 (“1895”) (as “helvola”)

Vilfa helvola Trin., Mém. Acad. Imp. Sci. Saint-Pétersbourg, Sér. 6, Sci. Math., Seconde Pt. Sci. Nat. 4(2): 52. 1840. Syntypes: Saudia Arabia: Wadi Diara, Habessin, in siccis; *Ehrenberg s.n.* (LE). Senegal; *Leprieur s.n.* (LE). Senegal; *Lelievre s.n.* (LE). *Vilfa glaucifolia* Hochst. ex Steud, Syn. Pl. Glumac. 1: 154. 1854. Type: Africa: Sudan: Nubia, Kordovan, Arasch-Cool; September 30, 1839; *Kotschy 74* (WAG). *Sporobolus glaucifolius* (Hochst. ex Steud.) Hochst. ex T. Durand & Schinz, *Consp. Fl. Afr.* [T.A. Durand & H. Schinz] 5: 820. 1894 (“1895”)

Distribution. Gujarat, Maharashtra, Rajasthan [Pakistan].

Habit. Perennial.

1322. *Sporobolus humilis* Presl ssp. *minor* Veldkamp, *Blumea* 35: 420. 1991

Vilfa geniculata Nees, Syn. Pl. Glumac. (Steudel) 1: 156. 1854. Type: India: Madras
Sporobolus geniculatus (Nees) Aitch., Cat. Punjab Pl. 165. 1869
Sporobolus tremulus auct. non Kunth: Kunth, Révis. Gramin. 1: 67. 1829

Type. India: Madras, not indicated (P, holo, not found).

Distribution. Assam, Bihar, Maharashtra, Punjab, Tamil Nadu [Myanmar, Pakistan].

Habit. Perennial.

1323. *Sporobolus indicus* (L.) R. Br., *Prodr. Fl. Nov. Holland.* 170. 1810 var. *indicus*

Agrostis indica L., Sp. Pl. 63. 1753. Type: “Habitat in India.” Lectotype: Clayton 460b, Herb. Linn. No. 84.36 (LINN). LT designated by Baaijens & Veldkamp in *Blumea* 35: 422. 1991.

Distribution. Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Chhattisgarh, Jharkhand, Madhya Pradesh, Maharashtra, Nagaland, Punjab, Tamil Nadu, Tripura [Myanmar, Pakistan].

Habit. Perennial.

1324. *Sporobolus indicus* (L.) R. Br. var. *flaccidus* (Roem. & Schult.) Veldkamp, *Blumea* 35(2): 433. 1991

Agrostis elongata (R. Br.) Roth var. *flaccida* Roem. & Schult., Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 368. 1817. Type: India; *Roth* 80 β

Distribution. Andaman and Nicobar Islands, Andhra Pradesh, Assam, Bihar, Chhattisgarh, Goa, Gujarat, Himachal Pradesh, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Nagaland, Odisha, Sikkim, Tamil Nadu, Tripura, Uttar Pradesh, West Bengal [Pakistan, Sri Lanka].

Habit. Perennial.

1325. *Sporobolus ioclados* (Nees ex Trin.) Nees, *Fl. Afr. Austral. Ill.* 161. 1841

Vilfa ioclados Nees ex Trin., Mém. Acad. Imp. Sci. Saint-Pétersbourg, Sér. 6, Sci. Math., Seconde Pt. Sci. Nat. 4(2): 65. 1840. Type: South Africa: Cape; *Drége & Wonderhuivel s.n.* (LE).

Sporobolus marginatus Hochst. ex A. Rich., Tent. Fl. Abyss. 2: 397. 1850–1851. Syn-types: Ethiopia: in valle lata Meda; April; *G.H.W. Schimper s.n.* (L). “Crescit in provincia Chiré”; *Quartin Dillon s.n.* et in valle lata Meda mense Aprili; *Schimper s.n.*

Sporobolus arabicus Boiss., Diagn. Pl. Orient. ser. 1, 13: 47. 1854. Type: “Hab. in aridis Arabiae prope Mascate Aucher no. 5425.” Saudi Arabia: Muscat, desert; *Aucher-Eloy* 5425

Distribution. Gujarat, Haryana, Madhya Pradesh, Maharashtra, Rajasthan, Tamil Nadu, Uttar Pradesh [Pakistan, Africa].

Habit. Perennial.

Remarks. Distribution in Gujarat, Haryana, Madhya Pradesh and Uttar Pradesh fide Naithani (1990).

1326. *Sporobolus maderaspatanus* Bor, *Kew Bull.* 1957: 234. 1957

Type. India: Madras, Guntur District; October 22, 1902; *C.A. Barber* 4720 (K).

Distribution. Andhra Pradesh, Goa, Gujarat, Karnataka, Maharashtra, Rajasthan, Tamil Nadu [Sri Lanka].

Habit. Perennial.

1327. *Sporobolus piliferus* (Trin.) Kunth, Enum. Pl. 1: 211. 1833

Vilfa pilifera Trin., Gram. Unifl. Sesquifl. 157. 1824. Type: “V. spp. Nepal.” Lectotype: Nepal, Wallich 3774 (LE). LT designated by Baaijens & Veldkamp in *Blumea* 35: 441. 1991.

Sporobolus stachyanthus A. Rich., Tent. Fl. Abyss. 2: 394. 1850–1851. Type: “Crescit in montosis planitie provinciae Chire, mense Octobre; *Quartin Dillon s.n.*”

Triachyrum nilagiricum Steud., Syn. Pl. Glumac. 1: 176. 1854. Type: India: Tamil Nadu, Nilagiri Mountain; 1851; *Hohenacker 931*

Sporobolus ciliatus Munro ex Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 251. 1896, nom. nud.

Distribution. Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Himachal Pradesh, Jammu and Kashmir, Karnataka, Kerala, Maharashtra, Meghalaya, Odisha, Tamil Nadu, Uttar Pradesh, Uttarakhand, West Bengal [Bhutan, China, Nepal].

Habit. Annual.

1328. *Sporobolus schoenoides* (L.) P. M. Peterson, Taxon 63(6): 1234. 2014

Phleum schoenoides L., Sp. Pl. 1: 60. 1753. Type: “Habitat in Italia, Smyrna, inque Hispania. Loeffling.” Lectotype: *Herb. Linn. No. 81.7* (LINN). LT designated by Clayton in Polhill (ed.), Fl. Trop. E. Africa, Gramineae 2: 353. 1974.

Crypsis schoenoides (L.) Lam., Tabl. Encycl. 1: 166. t. 42. f. 1. 1791

Heleochloa schoenoides (L.) Host, Icon. Descr. Gram. Austriac. 1: 23. t. 30. 1801

Distribution. Gujarat, Madhya Pradesh, Punjab, Rajasthan [Afghanistan, China, Pakistan].

Habit. Annual.

1329. *Sporobolus spicatus* (Vahl) Kunth, Révis. Gramin. 1: 67. 1829

Agrostis spicata Vahl, Symb. Bot. (Vahl) 1: 9. 1790. Type: Egypt; *Forsskal s.n.* (C).

Vilfa spicata P. Beauv., Ess. Agrostogr. 16, 147, 182. 1812, nom. nud.

Distribution. Andhra Pradesh, Karnataka, Tamil Nadu [also in Saudi Arabia, Africa].

Habit. Perennial.

1330. *Sporobolus tenuissimus* (Schrank) Kuntze, Revis. Gen. Pl. 3(3): 369. 1898

Panicum tenuissimum Schrank, Denkschr. Königl.-Baier. Bot. Ges. Regensburg 2: 26. 1822. Type: “Brasilien, Hr. Dr. Martius” “Pflege: in warmen Hause.”

Sporobolus mangaloricus Miq., Nieuwe Verh. Eerste Kl. Kon. Ned. Inst. Wetensch. Amsterdam ser. 3, 4: 36. 1851. Type: India: Tamil Nadu, Canara, near Mangalore; 1847; *Hochstetter* 137 (U).

Vilfa mangalorica (Miq.) Hochst. ex Steud., Syn. Pl. Glumac. 1: 159. 1854.

Vilfa minutiflora Trin., Gram. Unifl. Sesquifl. 158. 1824. Type: cultivated in Leningrad from seeds collected in Brazil; *Martius s.n.* (LE-TRIN-1718.01).

Sporobolus minutiflorus (Trin.) Link, Hort. Berol. [Link] 1: 88. 1827

Distribution. Andhra Pradesh, Bihar, Goa, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Rajasthan, Tamil Nadu [China]. Naturalized; native to tropical America.

Habit. Annual.

1331. *Sporobolus tetragonus* Bor, Kew Bull. 1949: 251. 1949

Sporobolus pulchellus sensu Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 252. 1896, non R. Br., 1810

Type. Siam, Kanburi; *A.F. G. Kerr* 19762 (K).

Distribution. Bihar, Madhya Pradesh, Maharashtra [Myanmar].

Habit. Annual.

1332. *Sporobolus tourneuxii* Coss., Bull. Soc. Bot. France 36: 250. 1889

Sporobolus indicus Stapf ex T. Cooke, Fl. Bombay 2: 1018. 1908. Type: Pakistan: Sind, Dadu District, Thano Bula Khan to Kotri; *Woodrow s.n.* (K).

Type. Algeria: Tunetia, desert; 1884; *Letourneux s.n.* (K).

Distribution. Rajasthan [Pakistan].

Habit. Perennial.

1333. *Sporobolus virginicus* (L.) Kunth, Révis. Gramin. 1: 67. 1829

Agrostis virginica L., Sp. Pl. 1: 63. 1753. Type: "Habitat in Virginia." Lectotype: Clayton 507, Herb. Linn. No. 84.30 (LINN). LT designated by Hitchcock in Contr. U.S. Natl. Herb. 12: 119. 1908.

Crypsis virginica (L.) Nutt., Gen. N. Amer. Pl. [Nuttall] 1: 49. 1818

Podosemum virginicum (L.) Link, Hort. Berol. [Link] 1: 85. 1827

Vilfa virginica (L.) P. Beauv., Ess. Agrostogr. 16, 149, 182. 1812

Agrostis littoralis Lam., Tabl. Encycl. 1: 161. 1791. Type: "America merid., Communic. a D. Richard." Lectotype: Antilles: Virgin Islands: bayis Trium insularum Dan-

arum; May 1787; *L.C.M. Richard s.n.*(P). LT designated by Baaijens & Veldkamp in *Blumea* 35: 446. 1991.

Sporobolus littoralis (Lam.) Kunth, Révis. Gramin. 1: 68. 1829

Vilfa littoralis (Lam.) P. Beauv., Ess. Agrostogr. 16: 147, 181. 1812

Vilfa intermedia Trin., Gram. Unifl. Sesquifl. 156. 1824. Type: “*V. sp. Ind. occ.*” [error, corrected in 1840 to Mauritan. Sieber]. Mauritius; *Sieber II-38* (LE-TRIN-1710.01).

Agrostis pungens Muhl., Descr. Gram. (Muhlenberg) 72. 1817, non Schreb., 1769. Type: “*Agrostis dure* Willd. persimilis et *Agrostis virginicae* Swarz.”

Sporobolus tremulus (Willd.) Kunth, Révis. Gramin. 1: 67. 1829

Agrostis juncea Lam., Tabl. Encycl. 1: 161. 1791. Type: “*Ex India, insula Franciae. A matrella. L. fotre varietas praecedentis.*” India; *Sonnerat s.n.* (P).

Vilfa tremula Trin., Gram. Unifl. Sesquifl. 155. 1824. nom. nov. for *Agrostis juncea* Lam., non *V. juncea* Trin. (1824)

Agrostis tremula Willd., Sp. Pl., ed. 4 [Willdenow] 1: 372. 1797, nom. superfl. & illeg. for *A. juncea* Lam.

Distribution. Andhra Pradesh, Daman and Diu, Goa, Gujarat, Karnataka, Kerala, Maharashtra, Tamil Nadu [China, Sri Lanka].

Habit. Perennial.

Remarks. Cosmopolitan.

1334. *Sporobolus wallichii* Munro ex Trimen., *J. Bot.* 27: 171. 1889

Type. “Collected by the late W. Ferguson, early in 1886, somewhere between Trincomalie and Kantalai Tank.” Numer. List [Wallich] no. 3769A.

Distribution. Andhra Pradesh, Bihar, Jharkhand, Karnataka, Odisha, Maharashtra, Rajasthan, Tamil Nadu [China, Myanmar, Sri Lanka].

Habit. Annual or perennial.

Urochondra C.E. Hubb., *Hooker’s Icon. Pl.* 35: sub t. 3457. 1947

Type. *Urochondra setulosa* (Trin.) C.E. Hubb. (*Vilfa setulosa* Trin.).

1335. *Urochondra setulosa* (Trin.) C.E. Hubb., *Hooker’s Icon. Pl.* 35: sub t. 3457. 1947

Vilfa setulosa Trin., Mém. Acad. Imp. Sci. Saint-Petersbourg, Sér. 6, Sci. Math., Seconde Pt. Sci. Nat. 4(2): 55. 1840. Type: [Saudi] Arabia: Ga-el-Ma, banks of salt-water creeks and saline flats; *Ehrenberg & Hemprich s.n.*

Crypsis setulosa (Trin.) Mez, Repert. Spec. Nov. Regni Veg. 17: 292. 1921

Heleochloa setulosa (Trin.) Blatt. & McCann, Sci. Monogr. Imp. Council Agric. Res. India 5: 205. t. 134. 1935

Sporobolus setulosus (Trin.) A. Terracc., Annuario Reale Ist. Bot. Roma 5: 95. 1893

Crypsis dura Boiss., Diagn. Pl. Orient. ser. 2. 4: 125. 1859. Type: "Hab. in ditionibus Scinde et Beloutschistan"; *Griffith* 455

Heleochloa dura (Boiss.) Boiss., Fl. Orient. [Boissier] 5: 477. 1884

Distribution. Goa, Gujarat, Karnataka, Maharashtra, Rajasthan [Pakistan].

Habit. Perennial.

***Zoysia* Willd., Ges. Naturf. Freunde Berlin Neue Schriften 3: 440. 1801, nom. cons.**

Type. *Zoysia pungens* Willd.

1336. *Zoysia japonica* Steud., Syn. Pl. Glumac. 1: 414. 1854

Osterdamia japonica (Steud.) Hitchc., Bull. U.S.D.A. 772: 166. 1920

Type. Japonia.

Distribution. Maharashtra [also in Japan, Korea, North America]. Naturalized and cultivated; native to eastern Asia, Japan.

Habit. Perennial.

1337. *Zoysia matrella* (L.) Merr., Philipp. J. Sci., C 7: 230. 1912 var. *matrella*

Agrostis matrella L., Mant. Pl. Altera 185. 1771. Type: "Habitat in Malabariae arenosis. Koenig. 56." Lectotype: König 56, Herb. Linn. No. 84.11 (LINN). LT designated by Goudswaard in Blumea 26: 171. 1980.

Osterdamia matrella (L.) Kuntze, Revis. Gen. Pl. 2: 781. 1891

Zoysia pungens Willd., Ges. Naturf. Ferunde Berlin Neue Schriften 3: 441. 1801. Type: India; *Klein s.n.*

Distribution. Andhra Pradesh, Daman and Diu, Goa, Gujarat, Karnataka, Kerala, Maharashtra, Odisha, Tamil Nadu, Uttar Pradesh, West Bengal [China, Sri Lanka].

Habit. Perennial.

1338. *Zoysia pacifica* (Goudsw.) M. Hotta & S. Kuroki, Acta Phytotax. Geobot. 45: 71. 1994

Zoysia matrella (L.) Merr. var. *pacifica* Goudsw., Blumea 26: 172. 1980. Type: Rhukyu I., Yonakuni I.; *Hatusima* 24127 (L.)

Zoysia tenuifolia sensu Bor, Grasses Burma, Ceylon, India and Pakistan 684. 1960, non Willd. ex Trin. 1836

Distribution. Andhra Pradesh, Daman and Diu, Goa, Gujarat, Karnataka, Kerala, Maharashtra, Odisha, Tamil Nadu [China].

Habit. Perennial.

Tribe Cynodonteae Dumort., 1824

Morphology in this tribe is almost as variable as within the subfamily as a whole. There are no obvious morphological synapomorphies (Kellogg 2015b).

***Acrachne* Wight & Arn. ex Chiov., Ann. Bot. (Rome) 8(3): 361. 1908**

Type. *Acrachne verticillata* (Roxb.) Chiov. (*Eleusine verticillata* Roxb.).

1339. *Acrachne henrardiana* (Bor) S.M. Phillips, Kew Bull. 37(1): 158. 1982

Dactyloctenium henrardianum Bor, Blumea, Suppl. 3: 44. 1946. Type: India: Tamil Nadu, Ramnad District, Pamban; January 19, 1945; *Daniel & S.R. Raju* 20089 (K).

Arthrochloa henrardiana (Bor) J. W. Lorch, J. Indian Bot. Soc. 39: 490. f. 1–5. 1960

Normanboria henrardiana (Bor) Butzin, Taxon 27(2–3): 301. 1978

Distribution. Tamil Nadu.

Habit. Annual.

1340. *Acrachne racemosa* (B. Heyne ex Roth) Ohwi, Bull. Tokyo Sci. Mus. 18: 1. 1947

Eleusine racemosa B. Heyne ex Roth, Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 583. 1817. Type: India Orientali; *Heyne s.n.*

Leptochloa racemosa (B. Heyne ex Roth) Kunth, Révis. Gramin. 1: 91. 1829

Eleusine verticillata Roxb., Fl. Ind. (Carey and Wallich ed.). 1: 346. 1820. Type: India: “A native of moist pasture ground.”

Acrachne verticillata (Roxb.) Lindl. ex Chiov., Ann. Bot. (Rome) 8(3): 361–362. 1908

Leptochloa verticillata (Roxb.) Kunth, Révis. Gramin. 1: 91. 1829

Distribution. Andhra Pradesh, Assam, Bihar, Delhi, Gujarat, Himachal Pradesh, Jammu and Kashmir, Karnataka, Madhya Pradesh, Maharashtra, Punjab, Rajasthan, Tamil Nadu, Uttar Pradesh, West Bengal [Afghanistan, China, Myanmar, Pakistan, Sri Lanka].

Habit. Annual.

1341. *Acrachne sundararajii* P. Umam., Muthuk. & P. Daniel, Kew Bull. 52(4): 1007 1997

Type. India: Tamil Nadu, Kanyakumari District, Vivekanandhapuram; November 21, 1995; *Muthukumar 106403* (CAL).

Distribution. Tamil Nadu.

Habit. Annual.

***Aeluropus* Trin., Fund. Agrost. (Trinius) 143. 1820**

Type. *Aeluropus laevis* Trin., nom. illeg. (*Dactylis brevifolia* J. Koenig ex Willd., *Aeluropus brevifolius* (J. Koenig ex Willd.) Trin. ex Wall.).

1342. *Aeluropus lagopoides* (L.) Trin. ex Thwaites, Enum. Pl. Zeyl. (Thwaites). 374. 1864 (as “lagopodioides”)

Dactylis lagopoides L., Mant. Pl. 33. 1767. Type: “Habitat in India. Burmannus.” Lectotype: *J. Burman s.n.*, *Herb. Linn. No. 90.5* (LINN). LT designated by Renvoize in Cafferty et al. (ed.), *Taxon* 49: 250. 2000.

Koeleria lagopoides (L.) Panz ex Spreng., *Syst. Veg.* (ed. 16) [Sprengel] 1: 332. 1824 (“1825”) (as “Kölera”)

Poa lagopoides (L.) Kunth, Révis. Gramin. 1: 111. 1829 (as “lagopodioides”)

Sesleria lagopoides (L.) Spreng., *Pl. Min. Cogn. Pug.* 2: 22. 1815 (as “Sessleria lagopodioides”)

Aeluropus concinnus Fig. & de Not., *Mem. Reale Accad. Sci. Torino ser. 2*, 12: 257. 1852. Type: “In arenosis salsugineis ad Wadi-Dahab”; *Figari s.n.*

Dactylis repens Desf., *Fl. Atlant.* 1: 79. t. 15. 1798. Type: “Habitat in arenosis ad maris littoral et in deserto.”

Aeluropus repens (Desf.) Parl., *Fl. Ital.* (Parlatore) 1: 462. 1848

Poa repens (Desf.) M. Bieb., Fl. Taur.-Caucas. 3: 69. 1819

Calotheca repens (Desf.) Spreng., Syst. Veg. (ed. 16) [Sprengel] 1: 347. 1824 (“1825”)

Calotheca niliaca Spreng., Syst. Veg. (ed. 16) [Sprengel] 1: 348. 1824 (“1825”)

Aeluropus lagopoides (L.) Trin. ex Trimen, Syst. Cat. Fl. Pl. Ceylon 110. 1885, isonym

Aeluropus brevifolius Nees ex Steud., Nomencl. Bot., ed. 2 (Steudel) 1: 30. 1840, nom. nud.

Poa tunetana Spreng., Pl. Min. Cogn. Pug. 2: 20. 1815, nom. superfl. & illeg. for *Dactylis repens* Desf.,

Aeluropus laevis Trin., Fund. Agrost. (Trinius) 143. t. 12. 1820, nom. superfl. & illeg. for *Dactylis brevifolia*

Dactylis lagopoides sensu Dalzell & A. Gibson, Bombay Fl. 298. 1861 (as “lagopodioides”), non L., 1767

Aeluropus villosus Trin. in C.A. Mey., Verz. Pfl. Casp. Meer. (C.A. von Meyer) 18. 1831, nom. superfl. & illeg. for *Poa repens* (Desf.) M. Bieb.

Distribution. Andhra Pradesh, Bihar, Daman and Diu, Delhi, Gujarat, Kerala, Maharashtra, Rajasthan, Odisha, Punjab, Tamil Nadu, West Bengal [Afghanistan, Pakistan, Sri Lanka].

Habit. Perennial.

1343. *Aeluropus littoralis* (Gouan) Parl., Fl. Ital. (Parlatore) 1: 461. 1848

Poa littoralis Gouan, Fl. Monsp. 470. 1765. Type: In maritimis arenosis a Villeneuve, Maguelone, France, *Gouan s.n.*

Calotheca littoralis (Gouan) Spreng., Syst. Veg. (ed. 16) [Sprengel] 1: 347. 1824 (“1825”)

Dactylis littoralis (Gouan) Willd., Sp. Pl., ed. 4 [Willdenow] 1: 408. 1797

Melica littoralis (Gouan) Raspail, Ann. Sci. Nat. (Paris) 5: 443. 1825

Poa pungens M. Bieb., Fl. Taur.-Caucas. 1: 65. 1808

Aeluropus pungens (M. Bieb.) K. Koch, Linnaea 21(4): 408. 1848

Aeluropus littoralis ssp. *pungens* (M. Bieb.) Tzvelev, Novosti Sist. Vyss. Rast. 8: 73. 1971

Distribution. India; states not recorded. [China].

Habit. Perennial.

Bouteloua Lag., Varied. Ci. 2(4): 134. 1805 (‘Botelua’), nom. et orth. cons.

Type. *Bouteloua racemosa* Lag.

1344. *Bouteloua aristidoides* (Kunth) Griseb., Fl. Brit. W. I. (Grisebach) 537. 1864

Dinebra aristidoides Kunth, Nov. Gen. Sp. 1: 171–172 (ed. qto.). 1816. Type: “Crescit in asperis frigidis convallis Tolucensis, alt. 1320 hexap.” Mexico: near Nevada, Toluca; *Humboldt & Bonpland* 67 (P).

Atheropogon aristidoides (Kunth) Roem. & Schult., Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 415. 1817 (as “aristidioides”)

Eutriana aristidoides (Kunth) Trin., Gram. Unifl. Sesquifl. 242. 1824

Triathera aristidoides (Kunth) Nash in Small, Fl. S.E. U.S. 137. 1903

Bouteloua ciliata Griseb., Abh. Königl. Ges. Wiss. Göttingen 24: 302. 1879. Type: Argentina: Salta, cerca del Pasaje del Río Juramento; February 21, 1873; *P.G. Lorentz & G. Hieronymus* 352 (GOET).

Dinebra hirsuta J. Presl in C. Presl, Reliq. Haenk. 1(4–5): 292. 1830. Type: “Habitat in Peruvia” Peru; *Haenke s.n.* (PR).

Eutriana hirsuta (J. Presl) Kunth, Enum. Pl. (Kunth) 1: 280. 1833

Aristida unilateralis Willd. ex Steud., Nomencl. Bot., ed. 2 (Steudel) 1: 132. 1840, nom. superfl & illeg. for *Eutriana aristidoides*

Distribution. India; states not recorded. Naturalized; native to North and South America.

Habit. Annual.

1345. *Bouteloua curtipendula* (Michx.) Torr. in Marcy, Explor. Red River Louisiana 300. 1853

Chloris curtipendula Michx., Fl. Bor.-Amer. (Michaux) 1: 59. 1803. Type: USA; 1795; *Michaux s.n.* (P). “Hab. in aridis regionis Illinoensis ad Wabast et in rupibus ad prairie du rocher.”

Andropogon curtipendulus (Michx.) Spreng. ex Steud., Nomencl. Bot., ed. 2 (Steudel) 1: 90. 1840

Atheropogon curtipendulus (Michx.) E. Fourn., Mexic. Pl. 2: 138. 1886

Cynodon curtipendula (Michx.) Raspail, Ann. Sci. Nat. (Paris) 5: 303. 1825

Dinebra curtipendula (Michx.) P. Beauv., Ess. Agrostogr. 98. 158 t. 16, f. 1. 1812

Eutriana curtipendula (Michx.) Trin., Fund. Agrost. (Trinius) 161. 1820

Eutriana affinis Hook. f., Trans. Linn. Soc. London 20(2): 174. 1847. Syntypes: North America; *Schweinnitz s.n.* Missouri, St. Louis & Texas; *Drummond s.n.*

Atheropogon affinis (Hook. f.) E. Fourn., Mexic. Pl. 2: 141. 1886

Atheropogon apludoides Muhl. ex Willd., Sp. Pl., ed. 4 [Willdenow] 4: 937. 1806. Type: “Habitat in America boreali.” USA; *G.H.E. Muhlenberg* 394 (PH).

- Atheropogon medius* E. Fourn., Mexic. Pl. 2: 139. 1886. Lectotype: Mexico: between T. Miguel and Sadani; October; *Liebmann* 581 (US-2307995 (fragm.)). LT designated by Swallen, N. Amer. Fl. 17: 633. 1939.
- Bouteloua racemosa* Lag., Varied. Ci. 2(4): 141. 1805. Type: Collected by L. Née in Mexico, possibly then cultivated in Madrid.
- Atheropogon racemosus* (Lag.) Roem. & Schult., Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 414. 1817
- Cynosurus secundus* Pursh, Fl. Amer. Sept. [Pursh] 2(Suppl.): 728. 1814. Type: USA: “upper Louisiana” [Territory = northern middle western states]; *J. Bradbury s.n.* (BM).
- Chloris secundus* (Pursh) Eaton, Man. Bot. (A. Eaton), ed. 5. 173. 1829
- Dineba secunda* (Pursh) Roem. & Schult., Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 711. 1817
- Heterostegon curtispindula* Schweinf. ex Hook. f., Trans. Linn. Soc. London 20(2): 175. 1847 (as “curtipendulus”), nom. nud., pro syn.
- Melica curtispindula* Steud., Nomencl. Bot. (Steudel) 1: 519. 1821, pro syn. of *Atheropogon apludoides*
- Cynodon melicoides* Raspail, Ann. Sci. Nat. (Paris) 5: 303. 1825, nom. superfl. & illeg.
- Bouteloua melicoides* P. Beauv., Ess. Agrostogr. 40. 155. t. 9. f. 6. 1812, nom. superfl. & illeg.
- Aristida secunda* Rudge ex Roem. & Schult., Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 711. 1817, nom. nud., pro syn.

Distribution. India [China]. Naturalized; native to the western hemisphere.

Habit. Perennial.

Remarks. Taxonomic editor Peterson questions whether any verified records exist for India.

1346. *Bouteloua gracilis* (Kunth) Lag. ex Griffiths, Contr. U.S. Natl. Herb. 14: 375. 1912, nom. cons.

- Chondrosium gracile* Kunth, Nov. Gen. Sp. 1: 176 (ed. qto.). t. 58. 1816. Type: “Crescit in crepidinibus et devexis montis porphyritici La Buffa de Guanajuato Mexicanorum, alt. 1270.” Mexico: Guanajuato, La Bufa; *Humboldt & Bonpland s.n.* (B-W-1628).
- Actinochloa gracilis* (Kunth) Willd. ex Roem. & Schult., Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 418. 1817
- Atheropogon gracilis* (Kunth) Spreng., Syst. Veg. (ed. 16) [Sprengel] 1: 293. 1824 (“1825”)
- Atheropogon oligostachyus* Nutt., Gen. N. Amer. Pl. [Nuttall] 1: 78. 1818 (as “oligostachyum”). Type: USA: “on the plains of Missouri [River]”; 1811; *T. Nuttall s.n.* (BM?).

Bouteloua oligostachya (Nutt.) Torr. ex A. Gray, Manual (Gray), ed. 2. 553. 1856

Chondrosum oligostachyum (Nutt.) Torr. in Marcy, Explor. Red River Louisiana 300. 1853 (as “Chondrosium”)

Bouteloua stricta Vasey, Bull. Torrey Bot. Club 15(2): 49. 1888. Type: USA: Texas, western Texas; 1887; *G.C. Nealley s.n.* (US-81710).

Distribution. India [China]. Naturalized; native to North America.

Habit. Perennial.

Remarks. Taxonomic editor Peterson questions whether any verified records exist for India.

Chloris Sw., Prodr. (Swartz) 25. 1788

Lectotype. *Chloris cruciata* (L.) Sw. (*Agrostis cruciata* L.) LT designated by G.V. Nash in N.L. Britton et A. Brown, Ill. Fl. N. U.S. ed. 2. 1: 225. 1913; affirmed by Hitchcock, Bull. U.S.D.A. 772: 187. 1920.

1347. *Chloris barbata* Sw., Fl. Ind. Occid. 1: 200. 1797

Chloris rufescens Steud., Syn. Pl. Glumac. 1: 206. 1854, nom. later. hom., non Lag., 1805. Type: *Urville* legit in Ins. Maurit.

Chloris inflata Link, Enum. Hort. Berol. Alt. 1: 105. 1821. Type grown in the Berlin Botanic Garden from seed said to come from ‘California,’ probably from Mexico” (Hitchcock, 1936, p. 134).

Andropogon barbatus L., Mant. Pl. Altera 302. 1771, (as “barbatum”), nom. later hom., non L., 1759. Type: Maurit; *Urville s.n.*

Type. Burma: Rangoon; July, 1904; *G. Forrest 346* (E).

Distribution. Andaman and Nicobar Islands, Andhra Pradesh, Assam, Bihar, Delhi, Goa, Gujarat, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Rajasthan, Tamil Nadu, Uttar Pradesh [China, Myanmar, Pakistan, Sri Lanka].

Habit. Annual or perennial.

1348. *Chloris bournei* Rang. & Tadul., J. Indian Bot. Soc. 2: 189. 1921

Syntypes. India: Coimbatore, on black cotton soil; *K. Rangachariar 1317, 1318, 4443, 5348, 6166, 6569* (MH).

Distribution. Andhra Pradesh, Karnataka, Maharashtra, Tamil Nadu [Pakistan].

Habit. Perennial.

Remarks. Records outside Andhra Pradesh fide Naithani (1990).

1349. *Chloris flagellifera* (Nees) P. M. Peterson, *Taxon* 64(3): 458. 2015

Eleusine flagellifera Nees, *Linnaea* 16: 220. 1842. Type: India and Arabia; *Royle* 86 & *Schimper* 800

Panicum compressum Forssk., *Fl. Aegypt.-Arab.* 18. 1775. Type: Yemen: Al Hadiyah “In montibus Hadiensibus”; March 1763; *Forsskal* 46 (C), non *Chloris compressa* DC, 1813

Ochthochloa compressa (Forssk.) Hilu, *Kew Bull.* 36(3): 559–563. f. 1(A-G). 1981

Eleusine compressa (Forssk.) Asch. & Schweinf. ex C. Chr., *Dansk Bot. Ark.* 4(3): 12. 1922

Ochthochloa dactyloides Edgew., *J. Asiat. Soc. Bengal* 11: 27. 1842. Type: Missing (vide *Kew Bull.* 36(3): 559–563. 1981)

Eleusine arabica Hochst. ex Steud., *Syn. Pl. Glumac.* 1: 211. 1854, nom. inval., as syn. of *Eleusine flagellifera* Nees

Distribution. Rajasthan [Afghanistan, Pakistan, Africa].

Habit. Perennial.

1350. *Chloris gayana* Kunth, *Révis. Gramin.* 1: 293, t. 58. 1830

Eustachys gayana (Kunth) Mundy, *Rhodesian Agric. J.* 19: 142. 1922

Chloris abyssinica Hochst. ex A. Rich., *Tent. Fl. Abyss.* 2: 406. 1850–1851. Syntypes: Ethiopia: Adoam; September 20, 1837; *Schimper* 79 (P). Ethiopia: Djeladjeranne; October 23, 1840; *Schimper* 1800 (P). Ethiopia: Aduoa; *Quartin Dillon s.n.*(P).

Chloris glabrata Andersson, *Naturw. Reise Mossambique* 557. 1864. Type: “Standort: auf feuchtem sandigen und moorigen Boden; Wiesengrund bei Tette, 17° S.B., 120 Meilen im Innern des Landes, Kohlen-Sandsteinformation”; *Peters in 1842–1848*

Type. “Senegalia” Senegal; February 4, 1823; *Doellinger* 21 (K).

Distribution. Andhra Pradesh, Delhi, Karnataka, Maharashtra, Rajasthan, Tamil Nadu [China]. Naturalized; native in Africa.

Habit. Perennial.

1351. *Chloris montana* Roxb., *Fl. Ind.* (Carey & Wallich ed.) 1: 331. 1820

Chloris montana Roxb. var. *glauca* Hook. f. in Trimen, *Handb. Fl. Ceylon* 5: 276. 1900. Type: Sri Lanka: hot drier parts of the Island; *Trimen s.n.*

Chloris decora sensu Thwaites, *Enum. Pl. Zeyl.* (Thwaites). 371. 1864, non Nees, 1854

Type. India: “This is native of Mountainous tracts only.”

Distribution. Andhra Pradesh, Bihar, Daman and Diu, Goa, Gujarat, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Rajasthan, Tamil Nadu, Uttar Pradesh, West Bengal [China, Sri Lanka].

Habit. Stoloniferous perennial.

1352. *Chloris prieurii* Kunth, Révis. Gramin. 2: 441. t. 134. 1831

Enteropogon prieurii (Kunth) Clayton, Kew Bull. 37(3): 419. 1982

Chloris punctulata Hochst. ex Steud., Syn. Pl. Glumac. 1: 205–206. 1854. Type: Egypt: Nubia; September 20, 1839; *T. Kotschy* 33350 (L).

Type. Senegal: St. Louis; *Leprieur s.n.*

Distribution. Maharashtra, Rajasthan [also in Saudi Arabia, Africa].

Habit. Annual.

Remarks. Record for Rajasthan fide Naithani (1990).

1353. *Chloris pycnothrix* Trin., Gram. Unifl. Sesquifl. 234. 1824

Type. “V. spp. Ex Ins. St. Catharinae, ubi detexit ill. De Chamisso.” Brazil: Santa Catarina Island; *Chamisso s.n.* (LE).

Distribution. Maharashtra, Tamil Nadu [China, Myanmar, Sri Lanka]. Naturalized. Native to Central and South America.

Habit. Annual.

Remarks. Record for Tamil Nadu fide Naithani (1990).

1354. *Chloris quinquesetica* Bhide, J. Proc. Asiat. Soc. Bengal (n.s.) 8(7&8): 311. 1912

Type. India: Papadi Bassein, growing on the bounds of rice fields in semisalt lands, near Railway Station Road; August 30, 1911; *R.K. Bhide s.n.* (K).

Distribution. Andhra Pradesh, Gujarat, Karnataka, Kerala, Maharashtra, Rajasthan [Pakistan].

Habit. Perennial.

Remarks. Records outside Andhra Pradesh fide Naithani (1990).

1355. *Chloris roxburghiana* Schult., Mant. 2 (Schultes) 339. 1824

Chloris myriostachya Hochst., Flora 38: 204. 1855. Type: “Eine sehr ausgezeichnete Art.” Abyssinia [Ethiopia]: Gagevos; 1858; *Schimper, Hb. abyss. Buch. 1416* (STR).

Chloris polystachya Roxb., Fl. Ind. (Carey and Wallich ed.) 1: 332. 1820, non Lag., 1816

Type. Peninsular India; *Roxburgh s.n.*

Distribution. Andhra Pradesh, Karnataka, Kerala, Tamil Nadu. Naturalized; native to Africa.

Habit. Perennial.

1356. *Chloris virgata* Sw., Fl. Ind. Occid. 1: 203. 1797

Chloris alba J. Presl, Reliq. Haenk. 1(4–5): 289. 1830. Type: “Hab. in Mexico” Mexico; *Haenke s.n.* (PR, US-2830891 isotype fragm.).

Chloris caudata Trin. ex Bunge, Enum. Pl. Chin. Bor. 70. 1833. Type: China: “Pekinum” Hebei; 1831; *A. Bunge Herb. Ledebour* (LE, Isotype).

Chloris compressa DC., Cat. Pl. Horti Monsp. 94–95. 1813. Type: South America; September, 1828 and August 20, 1828; *A.P. de Candolle 4* (US-2830890, US-80851 isotype fragm.). Cultivated at Montpellier southern France.

Chloris elegans Kunth, Nov. Gen. Sp. [H.B.K.] 1: 166 (ed. qto.). t. 49. 1816. Type: “Crescit iisdem fere locis inter Mexico et Queretaro.” Mexico: between Mexico City and Queretaro; *Humboldt & Bonpland 4194* (P).

Chloris pubescens Lag., Varied. Ci. 2(4): 143. 1805. Type: Peru

Rhabdochloa virgata (Sw.) P. Beauv., Ess. Agrostogr. 158, 176. 1812

Chloris penicillata Willd. ex Steud., Nomencl. Bot., ed. 2 (Steudel) 1: 353. 1840, nom. nud., non (Vahl.) Pers., 1805

Type. Antigua; *Swartz s.n.* (S).

Distribution. Andhra Pradesh, Bihar, Chhattisgarh, Delhi, Goa, Gujarat, Himachal Pradesh, Jammu and Kashmir, Jharkhand, Madhya Pradesh, Maharashtra, Karnataka, Rajasthan, Uttar Pradesh, West Bengal [Afghanistan, Bhutan, China, Myanmar, Nepal, Pakistan]. Cosmopolitan.

Habit. Annual.

1357. *Chloris wightiana* Nees, Syn. Pl. Glumac. (Steudel) 1: 206. 1854

Chloris incompleta Wight ex Steud., Syn. Pl. Glumac. 1: 206. 1854, pro syn.

Syntypes. Peninsula Indiae Orientalis; *Wight 1766* (K). India; *Wight 1337* (K).

Distribution. Tamil Nadu.

Habit. Perennial.

***Cleistogenes* Keng, Sinensia 5: 147. 1934**

Type. *Kengia serotina* (L.) Packer (*Festuca serotina* L.).

1358. *Cleistogenes gatacrei* (Stapf) Bor, Grasses Burma, Ceylon, India & Pakistan 487. 1960

Diplachne gatacrei Stapf, Bull. Misc. Inform. Kew 1898: 229. 1898. Type: Pakistan: Chitral; W. Gatacre 17626 (K).

Kengia gatacrei (Stapf) Cope, Kew Bull. 35(3): 701. 1980

Distribution. Northwest India; states not recorded [Pakistan].

Habit. Perennial.

1359. *Cleistogenes songorica* (Roshev.) Ohwi, J. Jap. Bot. 18: 540. 1942

Diplachne songorica Roshev., Fl. URSS. 2: 752. 1934. Type: *Keng* 3378 (NAS).

Cleistogenes mutica Keng, J. Wash. Acad. Sci. 28: 299. 1938

Kengia mutica (Keng) Packer, Bot. Not. 113(3): 292. 1960

Distribution. Ladakh [China].

Habit. Perennial.

Remarks. Record for Ladakh fide Naithani (1990).

***Coelachyrum* Hochst. & Nees, Linnaea 16: 221. 1842**

Type. *Coelachyrum brevifolium* Hochst. & Nees.

1360. *Coelachyrum lagopoides* (Burm.f.) Senaratna, Grasses of Ceylon (Perad. Man. No. 8) 79. 1956

Cynosurus lagopoides Burm. f., Fl. Ind. (N. L. Burman) 29. 1768. Lectotype: *J. Burman s.n.*, *Herb. Linn. No. 90.5* (LINN). LT designated by Renvoize in Cafferty et al. (ed.), *Taxon* 49: 250. 2000.

Eleusine lagopoides (Burm. f.) Merr., Philipp. J. Sci., 19(3): 339. 1921

Coelachyropsis lagopoides (Burm.f.) Bor, Ann. Naturhist. Mus. Wien. 75: 25. 1971

Coelachyrum brevifolium Hochst. & Nees, Linnaea 16: 221. 1842. Type. "In arenosis prope Dschiddam d. 30 Decembris legit W. Schimper." cited as "*Eleusine brevifolia* Hochst et Steud. Plant. Aegypt. -Arab. n. 799"

Coelachyrum indicum Hack., Nat. Pflanzenfam., ed. 2 [Engler & Prantl] 2(2): 61. 1887, nom. superfl. & illegit. for *Cynosurus lagopoides*
Koeleria brevifolia Spreng., Pl. Min. Cogn. Pug. 2: 21. 1815, nom. superfl. & illegit.
Poa brevifolia Kunth, Révis. Gramin. 1: 111. 1829, nom. superfl. & illegit.
Eragrostis brevifolia Benth., Hooker's Icon. Pl. 14: 51. 1881, nom. superfl. & illegit.
Dactylis brevifolia J. Koenig ex Willd., Sp. Pl., ed. 4 [Willdenow] 1: 410. 1797, nom. superfl. & illeg. for *Cynosurus lagopoides*
Eleusine brevifolia R. Br. ex Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 294. 1896, nom. superfl. & illegit., non *E. brevifolia* (Nees) Steud., 1854.

Distribution. Andhra Pradesh, Karnataka, Tamil Nadu [Sri Lanka].

Habit. Annual.

Remarks. Distribution outside Karnataka fide Naithani (1990).

***Cynodon* Rich., Syn. Pl. (Persoon) 1: 85. 1805, nom. cons.**

Type. *Cynodon dactylon* (L.) Pers. (*Panicum dactylon* L.).

1361. *Cynodon aethiopicus* Clayton & Harlan, Kew Bull. 24:187. 1970

Type. Ethiopia, *de Wet* OKLA9224.

Distribution. Delhi. Naturalized; native to Africa.

Habit. Stoloniferous perennial.

Remarks. Record from Delhi fide Naithani (1990).

1362. *Cynodon barberi* Rangachari & Tadul., J. Bombay Nat. Hist. Soc. 24: 846. 1916

Cynodon barberi Rang. & Tadul. f. *longifolium* S.K. Jain, Indian Forester 92(11): 699. 1966. Type: India: Orissa, Puri; 1889; *J.H. Walsh* s.n. (CAL).

Type. India: Tinnevely and Godavari District; 1901–1902; *C.A. Barber* s.n.

Distribution. Andhra Pradesh, Bihar, Chhattisgarh, Gujarat, Karnataka, Kerala, Lakshadweep, Madhya Pradesh, Maharashtra, Odisha, Rajasthan, Tamil Nadu, Uttar Pradesh, West Bengal [Myanmar, Sri Lanka].

Habit. Perennial.

Remarks. Most records from India fide Naithani (1990).

1363. *Cynodon dactylon* (L.) Pers., Syn. Pl. (Persoon) 1: 85. 1805

Panicum dactylon L., Sp. Pl. 1: 58. 1753. Type: "Habitat in Europa australi." Lectotype: *Herb. Linn. No. 80.35* (LINN). LT designated by Clayton & Harlan in Kew Bull. 24: 186. 1970.

Capriola dactylon (L.) Kuntze, Revis. Gen. Pl. 2: 764. 1891

Digitaria dactylon (L.) Scop., Fl. Carniol., ed. 2. 1: 53. 1771

Milium dactylon (L.) Moench, Suppl. Meth. (Moench) 67. 1802

Paspalum dactylon (L.) Lam., Tabl. Encycl. 1: 176. 1791

Cynodon erectus J. Presl in C. Presl, Reliq. Haenk. 1(4–5): 290. 1830. Type: "Hab. in Mexico, et in Peruviae montanis huanaccensibus." Mexico. Peruano montano; *Haenke s.n.* (PR-495767).

Cynodon maritimus Kunth, Nov. Gen. Sp. [H.B.K.] 1: 170 (ed. qto.). 1816

Digitaria maritima (Kunth) Spreng., Syst. Veg. (ed. 16) [Sprengel] 1: 272. 1824 ("1825")

Cynodon tenuis Trin. in Spreng., Neue Entdeck. Pflanzenk 2: 63. 1821. Type: "Habitat in America boreali."

Dactilon officinale Vill., Hist. Pl. Dauphiné (Villars) 2: 69. 1787, nom. superfl. & illeg. for *Panicum dactylon*

Digitaria littoralis Salisb., Prodr. Stirp. Chap. Allerton 19. 1796, nom. superfl. & illeg. for *Cynodon dactylon*

Chloris cynodon Trin., Gram. Unifl. Sesquifl. 229. 1824, nom. superfl. & illeg. for *Cynodon dactylon*

Cynodon occidentalis Willd. ex Steud., Nomencl. Bot., ed. 2 (Steudel) 1: 463. 1840, nom. nud.

Cynodon portoricensis Willd. ex Steud., Nomencl. Bot., ed. 2 (Steudel) 1: 463. 1840, nom. nud.

Agrostis bermudiana Tussac ex Kunth, Enum. Pl. (Kunth) 1: 259. 1833, nom. nud., pro syn.

Agrostis filiformis J. Koenig ex Kunth, Enum. Pl. (Kunth) 1: 261. 1833, nom. nud. pro syn.

Digitaria stolonifera Schrad., Fl. Germ. (Schrader) 1: 165.t. 3. f. 9. 1806, nom. superfl. & illeg.

Fibichia umbellata Koeler, Descr. Gram. (Koeler) 308. 1802, nom. superfl. & illeg. for *Panicum dactylon*

Distribution. Andaman and Nicobar Islands, Andhra Pradesh, Bihar, Chhattisgarh, Delhi, Goa, Gujarat, Himachal Pradesh, Jharkhand, Karnataka, Kerala, Lakshadweep, Madhya Pradesh, Maharashtra, Odisha, Rajasthan, Tamil Nadu, Tripura, Uttar Pradesh, West Bengal [Bangladesh, China, Myanmar]. Cosmopolitan; native range unknown.

Habit. Perennial.

1364. *Cynodon plectostachyus* (K. Schum.) Pilg., Bot. Jahrb. Syst. 40: 82. 1907 (as “plectostachyum”)

Leptochloa plectostachya K. Schum., Pflanzenw. Ost-Afrikas C. 112. 1895. Type: Tanzania “Steppen sudlich vom Kilimandscharo, sehr haufiges Gras in den Steppen am Pangani”, alt. 2500 ft.; July 2, 1893; *G. Volken* 477 (B).

Distribution. Tamil Nadu. Naturalized; native to Africa.

Habit. Perennial.

1365. *Cynodon radiatus* Roth, Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 411. 1817

Cynodon arcuatus J. Presl in C. Presl, Reliq. Haenk. 1(4–5): 290. 1830. Type: “Habitat in Luzonia.” Philippines: Luzon Island; *Haenke s.n.* (PR).

Cynodon intermedius Rang. & Tadul., J. Bombay Nat. Hist. Soc. 26: 304. f. 1. 2. 1918. Syntypes: India: Godavari District, Gokavaram; *Anonymous* 8262. Chingleput; *Anonymous* 11488. Tinnevely District; *Anonymous* 13129, 13259. Kallar on the Nilgiris; *Rangachari & Tadulingham* 13988

Cynodon dactylon (L.) Pers. var. *intermedius* (Rang. & Tadul.) C.E.C. Fisch., Fl. Madras 3(10): 1835. 1934

Type. India; 1814; *B. Heyne s.n.* (L).

Distribution. Andaman and Nicobar Islands, Andhra Pradesh, Assam, Bihar, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Nagaland, Odisha, Tamil Nadu, Uttar Pradesh, West Bengal [Bhutan, China, Myanmar, Nepal (Naithani), Pakistan, Sri Lanka].

Habit. Annual.

Remarks. Most records from India fide Naithani (1990).

***Dactyloctenium* Willd., Enum. Pl. (Willdenow) 2: 1029. 1809**

Lectotype. *Dactyloctenium aegyptium* (L.) Willd. (“aegyptiacum”) (*Cynosurus aegyptius* L.). LT designated by Pfeiffer, Nomencl. Bot. 1: 1000. 1873.

1366. *Dactyloctenium aegyptium* (L.) Willd., Enum. Pl. (Willdenow) 2: 1029. 1809 (as “aegyptiacum”)

Cynosurus aegyptius L., Sp. Pl. 1: 72. 1753. Type: “Habitat in Africa, Asia, America.” Lectotype: *Herb. Linn. No. 91.11*(LINN). LT designated by Kit Tan in Davis (ed.), Fl. Turkey 9: 578. 1985.

Eleusine aegyptia (L.) Forsyth f., Bot. Nomencl. 70. 1794

Chloris mucronata Michx., Fl. Bor.-Amer. (Michaux) 1: 59. 1803. Type: USA; *Michaux* s.n. (P). "Hab. in cultis Carolinae."

Dactyloctenium mucronatum (Michx.) Willd., Enum. Pl. (Willdenow) 2: 1029. 1809

Eleusine pectinata Moench, Suppl. Meth. (Moench) 68. 1802, nom. superfl. & illegit. for *Cynosurus aegyptius*

Distribution. Andhra Pradesh, Assam, Bihar, Daman and Diu, Chhattisgarh, Delhi, Goa, Gujarat, Jammu and Kashmir, Himachal Pradesh, Karnataka, Kerala, Lakshadweep, Madhya Pradesh, Maharashtra, Odisha, Rajasthan, Tamil Nadu, Tripura, Uttar Pradesh, Uttarakhand, West Bengal [Myanmar, Sri Lanka].

Habit. Annual.

1367. *Dactyloctenium aristatum* Link, Hort. Berol. [Link] 1: 59. 1827

Type. "Hab. in Aegypto; *Eherenb.* s.n."

Distribution. Andhra Pradesh, Bihar, Chhattisgarh, Daman and Diu, Goa, Madhya Pradesh, Maharashtra, Rajasthan, Tamil Nadu, Uttar Pradesh, Uttarakhand [Pakistan].

Habit. Annual.

Remarks. Record for Tamil Nadu fide Naithani (1990).

1368. *Dactyloctenium australe* Steud., Syn. Pl. Glumac. 1: 212. 1854

Type. "Afr. austr."

Distribution. Maharashtra. Naturalized; native to Africa.

Habit. Perennial.

1369. *Dactyloctenium scindicum* Boiss., Diagn. Pl. Orient. ser. 2, 3(4): 131. 1859

Eleusine scindica (Boiss.) Duthie, Fodder Grasses North. India. 58. 1888

Dactyloctenium glaucophyllum Courbai, Ann. Sci. Nat., Bot. Ser. 4, 18: 133. 1862.

Type: "In locis siccis, sabulosis."

Eleusine glaucophylla (Courbai) Munro ex Benth., J. Linn. Soc., Bot. 19: 107. 1881

Type. "Hab. in ditione Scinde cl. Griffith No. 637."

Distribution. Daman and Diu, Delhi, Gujarat, Haryana, Madhya Pradesh, Maharashtra, Punjab, Rajasthan, Uttar Pradesh [Pakistan].

Habit. Perennial.

Remarks. Records in India fide Naithani, except for Maharashtra, Punjab.

Desmostachya* (Stapf) Stapf, Fl. Cap. (Harvey) 7: 316. 1898; 632. 1900Eragrostis* sect. *Desmostachya* Stapf, Fl. Brit. India (J.D. Hooker) 7: 324. 1896.**Lectotype.** *Desmostachya bipinnata* (L.) Stapf (*Briza bipinnata* L.).**1370. *Desmostachya bipinnata* (L.) Stapf, Fl. Cap. (Harvey) 7: 632. 1900***Briza bipinnata* L., Fl. Palaest. 12. 1756. Type: “Habitat in Herjil. Aegypt. Aegypt. frequ. Palaest. rar.” Lectotype: Hasselquist, Herb. Linn. No. 89.2 (LINN). LT designated by Danin in Cafferty et al. (ed.), Taxon 49: 248. 2000.*Leptochloa bipinnata* (L.) Hochst., Flora 38: 422. 1855*Pogonarthria bipinnata* (L.) Chiov., Ann. Bot. (Rome) 8(3): 362. 1908*Stapfiola bipinnata* (L.) Kuntze in T. Post & Kuntze, Lex. Gen. Phan. 532. 1903 (“1904”)*Uniola bipinnata* (L.) L. Sp. Pl., ed. 2. 1: 104. 1762.*Poa cynosuroides* Retz., Observ. Bot. (Retzius) 4: 20. 1786–1787. Type: “Habitat in aridis sterilioribus I. Or. Cel. Konig.”*Eragrostis cynosuroides* (Retz.) P. Beauv., Ess. Agrostogr. 174. 1812*Cynosurus durus* Forssk., Fl. Aegypt.-Arab. 21. 1775, nom. later hom. & illeg., non L., 1753. Type: “In hortis Kahirinis spontaneus. Arab Hhalfe.”**Distribution.** Andhra Pradesh, Assam, Bihar, Chhattisgarh, Daman and Diu, Goa, Gujarat, Haryana, Himachal Pradesh, Jammu and Kashmir, Karnataka, Maharashtra, Odisha, Punjab, Rajasthan, Tamil Nadu, Uttar Pradesh, West Bengal [China, Myanmar, Nepal, Pakistan].**Habit.** Rhizomatous perennial.***Dignathia* Stapf, Hooker’s Icon. Pl. 30: sub t. 2950. 1911****Lectotype.** *Dignathia gracilis* Stapf.**1371. *Dignathia hirtella* Stapf, Hooker’s Icon. Pl. 30: t. 2950. f. 13. 1911****Type.** British East Africa: Without precise locality; *Linton 4* (cum *Latipede senegalensi* Kunth).**Distribution.** Gujarat, Rajasthan. Native; also in Africa.**Habit.** Annual.**Remarks.** Distribution in India fide Naithani (1990).

***Dinebra* Jacq., Fragm. Bot. 77. 1809**

Type. *Dinebra arabica* Jacq., nom. illeg. (*Cynosurus retroflexus* Vahl, *Dinebra retroflexa* (Vahl) Panz.).

1372. *Dinebra chinensis* (L.) P.M. Peterson & N. Snow, Ann. Bot. 109: 1326. 2012

Poa chinensis L., Sp. Pl. 1: 69. 1753. Type: "Habitat in India. Osbeck." Lectotype: *Osbeck s.n.*, *Herb. Linn. No. 87.32* (LINN). LT designated by Phillips in Polhill (ed.), Fl. Trop. E. Africa, Gramineae 2: 279. 1974

Leptochloa chinensis (L.) Nees, Syll. Pl. Nov. 1: 4. 1824

Poa malabarica sensu Retz., Observ. Bot. (Retzius) 5: 19. 1788 ("1789"), non L., 1753

Distribution. Andhra Pradesh, Assam, Bihar, Chhattisgarh, Gujarat, Himachal Pradesh, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Tamil Nadu, Uttar Pradesh, West Bengal [Bhutan, China, Myanmar, Sri Lanka].

Habit. Annual.

1373. *Dinebra polystachyos* (R. Br.) E.A. Kellogg, comb. nov.

urn:lsid:ipni.org:names:77212134-1

Cynodon polystachyos R. Br., Prodr. Fl. Nov. Holland. 1: 187. 1810 (as "polystachyon"). Type: Australia: Northern Territory: Darwin & Gulf Distr.: Maria Island, Gulf of Carpenteria. *R. Brown* 6238.

Cynodon neesii Thwaites, Enum. Pl. Zeyl. (Thwaites). 371. 1864. Type: India; *Rottler s.n.*, *Wight s.n.* Sri Lanka: Trincomalee; *Thwaites Ceylon Plant* 3749

Leptochloa neesii (Thwaites) Benth., J. Linn. Soc., Bot. 19: 108. 1881

Dinebra neesii (Thwaites) P.M. Peterson & N. Snow, Ann. Bot. 109: 1326. 2012

Leptochloa polystachyos (R. Br.) Benth., Fl. Austral. 7: 617–618. 1878, non *L. polystachya* (Michx.) Kunth, 1829

Cynodon virgatus Nees ex Steud., Syn. Pl. Glumac. 1: 213. 1854, non (L.) Raspail, 1825

Distribution. Andhra Pradesh, Tamil Nadu [Myanmar, Sri Lanka].

Habit. Annual or perennial.

Remarks. The above combination is made here to transfer *Cynodon polystachyos* R. Br. to *Dinebra*.

1374. *Dinebra panicea* (Retz.) P.M. Peterson & N. Snow, Ann. Bot. 109: 1326. 2012

Poa panicea Retz., Observ. Bot. (Retzius) 3: 11. 1783. Type: “E China misit Honoratiss. Bladh.” China: Honoratiss; *Bladh s.n.* (LD).

Leptochloa panicea (Retz.) Ohwi, Bot. Mag. (Tokyo) 55: 311. 1941

Aira filiformis J. Koenig ex Roxb., Fl. Ind. (Carey and Wallich ed.) 1: 328. 1820. Type: India: “A native of pasture ground.”

Leptochloa filiformis sensu Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 298. 1896, non (Pers.) P. Beauv., 1812

Distribution. Andhra Pradesh, Bihar, Chhattisgarh, Delhi, Gujarat, Madhya Pradesh, Maharashtra, Odisha, Tamil Nadu, Uttar Pradesh, Uttarakhand [China, Sri Lanka].

Habit. Annual.

1375. *Dinebra retroflexa* (Vahl) Panz., Ideen Revis. Gräs. 59, 60. 1813 var. *retroflexa*

Cynosurus retroflexus Vahl, Symb. Bot. (Vahl) 2: 20. 1791. Type: “Habitat in India Orientali. Dn. La Mark.” India: common weed of cultivation; *La Mark s.n.* (C).

Dinebra arabica Jacq., Fragm. Bot. 77, 98. t. 121. f. 1. 1807. Type: Cultivated at the Vienna Botanical Garden.

Leptochloa arabica (Jacq.) Kunth, Révis. Gramin. 1: 91. 1829

Eleusine calycina Roxb., Fl. Ind. (Carey and Wallich ed.) 1: 347. 1820. Type: India: “Grows in small tufts on dry pasture ground, but generally amongst bushes.”

Distribution. Andhra Pradesh, Bihar, Chhattisgarh, Dadra and Nagar Haveli, Goa, Gujarat, Karnataka, Madhya Pradesh, Maharashtra, Odisha, Punjab, Rajasthan, Tamil Nadu [China, Pakistan].

Habit. Annual.

1376. *Dinebra retroflexa* (Vahl) Panz. var. *condensata* S.M. Phillips, Kew Bull. 28(3): 413–414. 1973

Type. Tanzania; *Procter 3209* (K).

Distribution. Andhra Pradesh, Bihar, Goa, Gujarat, Jammu and Kashmir, Karnataka, Madhya Pradesh, Maharashtra, Odisha, Punjab, Rajasthan, Tamil Nadu, Uttar Pradesh [Afghanistan, Pakistan, Sri Lanka].

Habit. Annual.

***Diplachne* P. Beauv., Ess. Agrostogr. 80, pl. 16, f. 9. 1812**

Type. *Diplachne fascicularis* (Lam.) P. Beauv. (*Festuca fascicularis* Lam.; *Diplachne fusca* ssp. *fasciculata* (Lam.) P.M. Peterson & N. Snow).

1377. *Diplachne fusca* (L.) P. Beauv., Syst. Veg. 2: 615. 1817

Festuca fusca L., Syst. Nat., ed. 10. 2: 876. 1759. Type: "Habitat [in Palaestina.] Sp. Pl., ed. 2. 1: 109 (1762)" Lectotype: Hasselquist, Herb. Linn. No. 92.21 (LINN). LT designated by Phillips in Polhill (ed.), Fl. Trop. E. Africa, Gramineae 2: 281. 1974.

Leptochloa fusca (L.) Kunth, Révis. Gramin. 1: 91. 1829

Uralespis fusca (L.) Steud., Syn. Pl. Glumac. 1: 247. 1854

Leptochloa malabarica (L.) Veldkamp, Blumea 19(1): 64. 1971

Poa malabarica L., Sp. Pl. 1: 69. 1753, nom. rej. Type: "Habitat in India arenosis." Lectotype = "Tsjama-pullu" in Rheede, Hort. Malab., 12: 83. t. 45. 1693. LT designated by Merrill in Bull. Torrey Bot. Club 60: 635. 1933.

Diplachne malabarica (L.) Merr., Bull. Torrey Bot. Club 60: 635. 1933

Poa procera Roxb., Fl. Ind. (Carey and Wallich ed.) 1: 334. 1820. Type: India

Distribution. Andhra Pradesh, Bihar, Delhi, Gujarat, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Tamil Nadu, West Bengal [China, Myanmar, Pakistan, Sri Lanka].

Habit. Perennial.

***Disakisperma* Steud., Syn. Pl. Glumac. 1: 287. 1854**

Type. *Disakisperma mexicanum* Steud. ("mexicana") (*Disakisperma dubia* (Kunth) P.M. Peterson & N. Snow).

1378. *Disakisperma obtusiflorum* (Hochst) P.M. Peterson & N. Snow, Ann. Bot. 109: 1327. 2012 (as "obtusiflora")

Leptochloa obtusiflora Hochst., Flora 38: 203. 1855. Type: Abyssinia [Ethiopia]; Schimper Hb. Buch. nr. 1204 (STR)

Eleusine obtusiflora (Hochst.) Blatt., Rec. Bot. Surv. India 8: 505. 1936

Distribution. Kerala, Tamil Nadu [also in Saudi Arabia, Africa].

Habit. Perennial.

***Eleusine* Gaertn., Fruct. Sem. Pl. 1: 7. 1788**

Lectotype. *Eleusine coracana* (L.) Gaertn. (*Cynosurus coracanus* L.). LT designated by Nash in Britton & Brown, Ill. Fl. N. U.S., ed. 2, 1: 228. 1913; affirmed by Hitchcock, Bull. U.S.D.A. 772: 175. 1920.

1379. *Eleusine africana* Kenn.-O'Byrne, Kew Bull. 12:65. 1957

Type. South Africa: Cape Province, Kimberley Dist.: Warrenton-on-Waal, Mar 1950, *M. Wilman* H.K.1 (K; IT: US-2589173).

Distribution. Madhya Pradesh. Naturalized; native to Africa.

Habit. Annual.

Remarks. Record for Madhya Pradesh fide Naithani (1990).

1380. *Eleusine coracana* (L.) Gaertn., Fruct. Sem. Pl. 1: 8. t. 1. f. 11. 1788

Cynosurus coracanus L., Syst. Nat., ed. 10. 2: 875. 1759. Type: “Habitat [in India.] Sp. Pl., ed. 2. 1: 107. 1762.” Lectotype = “Gramen dactylon Orientale, majus, frumentaceum, semine Napi” in Plukenet, Phytographia t. 91. f. 5. 1691. Typotype: Herb. Sloane 96: 74 (BM-SL). Voucher: Herb. Sloane 93: 189 (BM-SL). Typotype designated by Phillips in Kew Bull. 27: 254. 1972.

Distribution. Andaman and Nicobar Islands, Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Chhattisgarh, Delhi, Gujarat, Himachal Pradesh, Jammu and Kashmir, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Meghalaya, Odisha, Rajasthan, Sikkim, Tamil Nadu, Tripura, Uttar Pradesh, Uttarakhand, West Bengal [China]. Cultivated.

Habit. Annual.

1381. *Eleusine indica* (L.) Gaertn., Fruct. Sem. Pl. 1: 8. 1788

Cynosurus indicus L., Sp. Pl. 1: 72–73. 1753. Type: “Habitat in Indiis.” Lectotype = “Gramen Dactyloides spicis deorsum aristatis” in Burman, Thes. Zeylan., 106. t. 47. f. 1. 1737. LT designated by Phillips in Cafferty et al. (ed.), Taxon 49: 249. 2000. Epitype: Sri Lanka: Central Province, Matale District, 5 miles South of Matale on Kandy Road; 1970; *Clayton* 5330 (K). Epitype designated by Phillips in Cafferty et al. (ed.), Taxon 49: 249. 2000.

Distribution. Andaman and Nicobar Islands, Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Delhi, Dadra and Nagar Haveli, Goa, Gujarat, Himachal Pradesh, Jam-

mu and Kashmir, Karnataka, Kerala, Lakshadweep, Maharashtra, Madhya Pradesh, Manipur, Meghalaya, Nagaland, Odisha, Rajasthan, Sikkim, Tamil Nadu, Tripura, Uttar Pradesh, West Bengal [China, Myanmar, Nepal, Sri Lanka].

Habit. Annual.

Remarks. Cosmopolitan; native to Africa and Asia.

***Enteropogon* Nees, Nat. Syst. Bot., ed. 2 448. 1836**

Type. *Enteropogon melicoides* (J. Koenig ex Willd.) Nees (*Ischaemum melicoides* J. Koenig ex Willd.).

1382. *Enteropogon dolichostachyus* (Lag.) Keng ex Lazarides, Austral. J. Bot., Suppl. Ser. 5: 31. 1972

Chloris dolichostachya Lag., Gen. Sp. Pl. (Lagasca) 5. 1816. Type: Philippines: "in Philip insulis D. Ludovicus Nee legit." (MA).

Melica digitata Roxb., Fl. Ind. (Carey and Wallich ed.) 1: 328. 1820. Type: India: "A native of hedges and thickets."

Chloris digitata (Roxb.) Steud., Syn. Pl. Glumac. 1: 207. 1854

Chloris incompleta Roth, Syst. Veg., ed. 15 bis [Roemer & Schultes]. 2: 607. 1817. Type: India; Heyne s.n.

Lophacme incompleta (Roth) Chiov., Ann. Bot. (Rome) 8(3): 350. 1908

Distribution. Andhra Pradesh, Bihar, Chhattisgarh, Delhi, Gujarat, Himachal Pradesh, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Rajasthan, Tamil Nadu, Uttarakhand [Afghanistan, Bhutan, China, Myanmar, Nepal, Pakistan, Sri Lanka].

Habit. Caespitose perennial.

1383. *Enteropogon monostachyos* (Vahl) K. Schum., Abh. Konigl. Akad. Wiss. Berlin 17. 1894

Cynosurus monostachyos Vahl, Symb. Bot. (Vahl) 2: 20. 1791. Type: "Habitat in India Orientali. Dn. Koenig."

Leptochloa monostachyos (Vahl) P. Beauv. Ex Roem. & Schult., Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 581. 1817 (as "monostachya")

Enteropogon badamicus Bhide, J. Proc. Asiat. Soc. Bengal (n. s.) 7(8): 517. 1912 ("1911"). Type: India: Bombay, Badami; September, 1909; R.K. Bhide s.n. (as "badamicum")

Ischaemum melicoides J. Koenig ex Rottler, Ges. Naturf. Freunde Berlin Neue Schriften 4: 211. 1803

Enteropogon melicoides (J. Koenig ex Rottler) Nees in Lindley, Nat. Syst. Bot. ed. 2. 449. 1836

Rottboellia pilosa Roth, Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 785. 1817. Type: India; *B. Heyne s.n.*

Rottboellia tricantha Roth, Nov. Pl. Sp. 43. 1821

Enteropogon coimbatorensis K.K.N. Nair, S.K. Jain, & M.P. Nayar, Proc. Indian Acad. Sci., B 86(2): 84, t. 1a-g. 1977. Type: India: Tamil Nadu, Coimbatore District, Kuridimalai; sd.; *K. Subramanyam* 1828 (MH). Type: India: “veneratiss”; *B. Heyne s.n.*

Distribution. Andhra Pradesh, Karnataka, Kerala, Maharashtra, Tamil Nadu [Myanmar, Sri Lanka, Africa].

Habit. Caespitose perennial.

***Eragrostiella* Bor, Indian Forester 66: 269. 1940**

Type. *Eragrostiella leioptera* (Stapf) Bor (*Eragrostis leioptera* Stapf).

1384. *Eragrostiella bifaria* (Vahl) Bor, Indian Forester 66(5): 270. 1940 var. *bifaria*

Poa bifaria Vahl, Symb. Bot. (Vahl) 2: 19. 1791. Type: “Habitat in India Orientali.”

Eragrostis bifaria (Vahl) Steud., Syn. Pl. Glumac. 1: 264. 1854

Poa coromandelina J. Koenig ex Rottler., Ges. Naturf. Freunde Berlin Neue Schriften 4: 191. 1803.

Eragrostis coromandelina (J. Koenig ex Rottler) Trin., Mém. Acad. Imp. Sci. St.-Petersbourg, Sér. 6, Sci. Math. 1: 415. 1830

Catapodium bifarium Link, Hort. Berol. [Link] 2: 194. 1833 (as “bifario”), nom. nud., in obs.

Catapodium coromandelianum Link, Hort. Berol. [Link] 2: 194. 1833 (as “coromandeliano”), nom. nud., in obs.

Distribution. Andhra Pradesh, Bihar, Chhattisgarh, Delhi, Haryana, Gujarat, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Rajasthan, Tamil Nadu [Myanmar, Sri Lanka, Africa].

Habit. Perennial.

1385. *Eragrostiella bifaria* (Vahl) Bor var. *walkeri* (Stapf) Lazarides, Contr. Herb. Austral. 22: 7. 1976

Eragrostis walkeri Stapf in Trimen, Handb. Fl. Ceylon 5: 298. 1900. Syntypes: Sri Lanka; *Walker s.n.* (K). Sri Lanka: Central Province, Galagama, below Horton plains; *Thwaites s.n.* Sri Lanka: Western province, Kurunegala; *Trimen s.n.*

Eragrostiella walkeri (Stapf) Bor, Indian Forester 66(5): 270. 1940

Distribution. Andhra Pradesh, Bihar, Delhi, Haryana, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Rajasthan, Tamil Nadu [Myanmar, Sri Lanka].

Habit. Perennial.

Remarks. Record for Tamil Nadu fide Naithani (1990).

1386. *Eragrostiella brachyphylla* (Stapf) Bor, Indian Forester 66(5): 270. 1940

Eragrostis brachyphylla Stapf, Fl. Brit. India (J.D. Hooker). 7(22): 327. 1896. Type: India: Behar and the Central Provinces, Nilghiris; *Wight, Perrottet*.

Distribution. Andhra Pradesh, Bihar, Chhattisgarh, Gujarat, Himachal Pradesh, Karnataka, Madhya Pradesh, Maharashtra, Odisha, Rajasthan, Tamil Nadu, West Bengal [Bangladesh, Sri Lanka].

Habit. Perennial.

1387. *Eragrostiella leioptera* (Stapf) Bor, Indian Forester 66(5): 270. 1940

Eragrostis leioptera Stapf, Fl. Brit. India (J.D. Hooker). 7(22): 325. 1896. Type: India: Khasia Hills, alt. 4000–5000 ft.; *Griffith s.n.*

Distribution. Assam, Madhya Pradesh, Meghalaya.

Habit. Perennial.

1388. *Eragrostiella nardoides* (Trin.) Bor, Indian Forester 66(5): 270. 1940

Eragrostis nardoides Trin., Mém. Acad. Imp. Sci. St.-Pétersbourg, Sér. 6, Sci. Math. 1(4): 415. 1830. Type: “V. spp. Nepal.” Nepal; *Wallich* (Numer. List [Wallich] no. 3827F) (LE).

Catapodium nepalense Link, Hort. Berol. [Link] 2: 194. 1833. Type: “Habitat in Nepalia.”

Distribution. Bihar, Chhattisgarh, Madhya Pradesh, Punjab, Rajasthan, Uttar Pradesh [Nepal].

Habit. Perennial.

***Gymnopogon* P. Beauv., Ess. Agrostogr. 41, 164. 1812**

Type. *Gymnopogon racemosus* P. Beauv., nom. illeg. (“racemosa”) (*Andropogon ambiguus* Michx., *Gymnopogon ambiguus* (Michx.) Britton, Sterns & Poggenb.).

1389. *Gymnopogon delicatulus* (C.B. Clarke ex Hook. f.) Bor, Grasses Burma, Ceylon, India & Pakistan 472. 1960

Chloris delicatula C.B. Clarke ex Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 290. 1896. Syntypes: India: Chota Nagpore, Mandu, Hazarabagh; C.B. Clarke 33855. Pegu-Yomah; *Kurz s.n.*

Distribution. Jharkhand, Odisha [Mynamar].

Habit. Annual.

***Halopyrum* Stapf, Hooker's Icon. Pl. 25: t. 2448. 1896**

Type. *Halopyrum mucronatum* (L.) Stapf (*Uniola mucronata* L.).

1390. *Halopyrum mucronatum* (L.) Stapf, Hooker's Icon. Pl. 25: t. 2448. 1896

Uniola mucronata L., Sp. Pl., ed. 2. 1: 104. 1762. Type: "Habitat in India. Burmanus." Neotype: Sri Lanka: Wilpatti National Park; December 30, 1968; *Fosberg & al.* 50918 (K). LT designated by Renvoize in Cafferty et al. (ed.), *Taxon* 49: 258. 2000.

Desmazeria uniolooides Defflers, Voy. Yemen. 220. 1889, nom. superfl. & illeg. for *Uniola mucronata* L.

Eragrostis mucronata (L.) Defflers, Bull. Soc. Bot. France 34: 69. 1887, non *Eragrostis mucronata* Roem. & Schult., 1817

Distribution. Delhi, Gujarat, Maharashtra, Rajasthan, Tamil Nadu [Pakistan, Sri Lanka].

Habit. Perennial.

***Hilaria* Kunth, Nov. Gen. Sp. [H.B.K.] 1(1–2): 116 (ed. qto.). t. 37. 1816 ("1815")**

Type. *Hilaria cenchroides* Kunth.

1391. *Hilaria jamesii* (Torr.) Benth., J. Linn. Soc., Bot. 19: 62. 1881

Pleuraphis jamesii Torr., Ann. Lyceum Nat. Hist. New York 1(1): 148–150, t. 10. 1824. Type: "Habitat on the high plains of the trap formation at the sources of the Canadian river." USA: Texas or New Mexico, sources of the Canadian River; 1852; *James s.n.* (NY).

Pleuraphis sericea Nutt. ex Benth., J. Linn. Soc., Bot. 19: 62. 1881, nom. nud. as synonym of *Hilaria sericea* Benth.

Distribution. India. Native to North America.

Habit. Perennial.

Remarks. The report of this species for India is dubious; documentation is lacking.

***Leptochloa* P. Beauv., Ess. Agrostogr. 71. 1812**

Lectotype. *Leptochloa virgata* (L.) P. Beauv. (*Cynosurus virgatus* L.). LT designated by Nash in N.L. Britton & A. Brown, Ill. Fl. N. U.S. ed. 2. 1: 229. 1913; affirmed by Hitchcock, Bull. U.S.D.A. 772: 172. 1920.

1392. *Leptochloa crinita* (Lag.) P.M. Peterson & N. Snow, Ann. Bot. 109: 1327. 2012 (as “*crinata*”)

Chloris crinita Lag., Varied. Ci. 4: 143. 1805. Type: Philippines: “Ex Philippinis Insulis” [from Nee letter] [error for Mexico]; *Nee s.n.* (MA).

Chloropsis crinita (Lag.) Kuntze, Revis. Gen. Pl. 2: 771. 1891

Trichloris crinita (Lag.) Parodi, Revista Argent. Agron. 14: 63. 1947

Chloris mendocina Phil., Anales Univ. Chile 36: 208- 209. 1870. Type: Chile: Mendoza (P).

Chloropsis mendocina (Phil.) Kuntze, Revis. Gen. Pl. 3(3): 348. 1898

Trichloris mendocina (Phil.) Kurtz, Mem. Fac. Ci. Exact. Fic. Nat. Univ. Nac. Cordoba 1896: 36. 1897

Trichloris fasciculata E. Fourn., Mex. Pl. 2: 142. 1886. Type: Mexico: San Luis de Potosi; *Virlett 1440* (P).

Chloropsis fasciculata (E. Fourn.) Kuntze, Revis. Gen. Pl. 2: 771. 1891

Trichloris blanchardiana E. Fourn. ex Scribn., Bull. Torrey Bot. Club 9: 146. 1882.

Type: USA: Arizona, Santa Cruz Valley, near Tucson; May 19, 1881; *C.G. Pringle 13921* (US).

Leptochloris greggii Munro ex Merr., U.S.D.A. Div. Bot. Circ. 32: 7. 1901, nom. nud., pro. syn.

Leptochloris crinita Munro ex Kuntze, Revis. Gen. Pl. 2: 771. 1891, nom. nud.

Chloris trichodes Lag. ex Parodi, Revista Argent. Agron. 14: 62. 1947, nom. nud., pro. syn

Distribution. India; individual states not recorded. Naturalized; native to North and South America.

Habit. Perennial.

1393. *Leptochloa pluriflora* (E. Fourn.) P.M. Peterson & N. Snow, *Ann. Bot.* 109: 1327. 2012

Trichloris pluriflora E. Fourn., *Mex. Pl.* 2: 142. 1886. Lectotype: USA: Texas, inter Laredo et Bejar; *Berlandier* 1430 (P). LT designated by Hitchcock in *Contr. U.S. Natl. Herb.* 17: 335. 1917.

Chloropsis pluriflora (E. Fourn.) Kuntze, *Revis. Gen. Pl.* 2: 771. 1891

Distribution. India; individual states not recorded. Naturalized; native to North and South America.

Habit. Perennial.

***Lepturus* R. Br., *Prodr. Fl. Nov. Holland.* 207. 1810**

Type. *Lepturus repens* (G. Forst.) R. Br. (*Rottboellia repens* G. Forst.).

1394. *Lepturus radicans* (Steud.) A. Camus, *Ann. Soc. Linn. Lyon* ser. 2, 69: 87. 1923

Ophiuros radicans Steud., *Syn. Pl. Glumac.* 1: 430. 1855. Type: Nossibe Insula; *Boivin* 1979, 1980

Distribution. Karnataka [Sri Lanka, Africa].

Habit. Perennial.

Remarks. Distribution in India fide Naithani (1990).

1395. *Lepturus repens* (G. Forst.) R. Br., *Prodr. Fl. Nov. Holland.* 1: 207. 1810

Rottboellia repens G. Forst., *Fl. Ins. Austr.* 9. 1786. Type: “Insula intra tropicos.”

Monerma repens (G. Forst.) P. Beauv., *Ess. Agrostogr.* 168, 177. 1812

Distribution. Lakshadweep [Sri Lanka, Africa, Australia].

Habit. Perennial.

***Melanocenchris* Nees, *Proc. Linn. Soc. London* 1: 94. 1841**

Type. *Melanocenchris rothiana* Nees (*Pommereulla monoica* Roth, non Rottler, 1803).

1396. *Melanocenchris abyssinica* (R. Br. ex Fresen.) Hochst., Flora 38: 274. 1855

Eutriana abyssinica R. Br. ex Fresen., Mus. Senckenberg. 2: 142. 1837. Type: Abyssinia; *Rueppell s.n.* (FR).

Melanocenchris plumosa Jaub. & Spach, Ill. Pl. Orient. 4: 37. 1851. Type: *Pennisetum plumosum* Hochst. et Steud. in Schimper plantis Arab no. 794

Gracilea royleana (Nees) Hook. f. var. *plumosa* (Jaub. & Spach) Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 284. 1896

Ptiloneilema plumosum (Jaub. & Spach) Steud., Syn. Pl. Glumac. 1: 201. 1854.

Pennisetum plumosum Hochst. ex Steud., Syn. Pl. Glumac. 1: 201. 1854, nom. nud. pro. syn.

Distribution. Gujarat, Maharashtra, Punjab, Rajasthan [Pakistan].

Habit. Annual.

1397. *Melanocenchris jacquemontii* Jaub. & Spach, Ill. Pl. Orient. 4: 36. t. 325. 1851

Melanocenchris royleana Nees, Syn. Pl. Glumac. (Steudel) 1: 218. 1854. Type: India Orientali

Gracilea royleana (Nees) Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 284. 1896

Type. “India tam cistropica (in provincial Delhi) quam australiori (inter urbes Bombay et Poonah) legit *Jacquemont*.” (P).

Distribution. Andhra Pradesh, Bihar, Chhattisgarh, Dadra and Nagar Haveli, Daman and Diu, Delhi, Goa, Gujarat, Karnataka, Madhya Pradesh, Maharashtra, Odisha, Rajasthan, Tamil Nadu, Uttar Pradesh [Pakistan].

Habit. Annual.

1398. *Melanocenchris monoica* (J. Koenig ex Rottler) C.E.C. Fisch., Fl. Madras 3(10): 1831. 1934

Pommereulla monoica J. Koenig ex Rottler, Ges. Naturf. Ferunde Berlin Neue Schriften 4: 218. 1803 (as “Pommereullia”). Type: India: In dry localities from the Kistna River to S. Arcot, Nilgiri District; *Perrotte s.n.*

Melanocenchris perrottetii Jaub. & Spach, Ill. Pl. Orient. 4: 38. t. 326. 1851. Type: India: Neligherry Mountains; 1840; *Perrottet s.n.* (P)

Melanocenchris monoica Roth, Nov. Pl. Sp. 33 (1821), non Rottler (1803)

Melanocenchris rothiana Nees, Proc. Linn. Soc. London 1: 95. 1841, nom. nov. for *Melanocenchris monoica* Roth

Gracilea nutans J. Koenig ex Rottler, Ges. Naturf. Ferunde Berlin Neue Schriften 4: 218. 1803, cited as synonym of *Pommereulla monoica*

Distribution. Andhra Pradesh, Tamil Nadu [Sri Lanka].

Habit. Perennial.

***Microchloa* R. Br., Prodr. Fl. Nov. Holland. 1: 208. 1810**

Type. *Microchloa setacea* R. Br., nom. illeg. (*Nardus indica* L. f., *Microchloa indica* (L. f.) P. Beauv.).

1399. *Microchloa indica* (L.f.) P. Beauv., Ess. Agrostogr. 168, Atlas 13, t. 20, fig. 8. 1812

Nardus indica L.f., Suppl. Pl. 105. 1782(“1781”). Type: “Habitat in Tranquebaria.” India; *Koenig s.n.*

Microchloa setacea R. Br., Prodr. Fl. Nov. Holland. 208. 1810, nom. superfl. & illegit. for *Nardus indica*

Rottboellia setacea Roxb., Pl. Coromandel 2: 17. t. 132. 1800, nom. superfl. & illeg.

Distribution. Andhra Pradesh, Bihar, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Tamil Nadu, West Bengal [China].

Habit. Annual.

Remarks. Worldwide in tropical habitats.

1400. *Microchloa kunthii* Desv., Opusc. Sci. Phys. Nat. 75. 1831

Paspalum tenuissimum M.E. Jones, Contr. W. Bot. 18: 24. 1935. Type: Mexico: Baja California, On the prairie at the Laguna Mountains, alt. 6500 ft.; September 24, 1930; *M.E. Jones 27584* (POM).

Microchloa elongata R. Br., Numer. List [Wallich] no. 3807. 1831, nom. nud.

Type. “Habitat in America aequinoxialia.” Mexico: Hidalgo, Omitlan et Llano de las Tinajas; *Humboldt & Bonpland s.n.* (P).

Distribution. Andhra Pradesh, Assam, Bihar, Meghalaya, Nagaland, Odisha, Tamil Nadu [Bhutan, China, Myanmar].

Habit. Perennial.

Remarks. Worldwide in tropical habitats.

***Muhlenbergia* Schreb., Gen. Pl., ed. 8[a] 44. 1789**

Type. *Muhlenbergia schreberi* J.F. Gmel., Syst. Nat., ed. 13[bis] 2: 171. 1791.

1401. *Muhlenbergia duthieana* Hack., Oesterr. Bot. Z. 52: 11. 1902

Muhlenbergia sylvatica sensu Hook. f., Fl. Brit. India (J.D. Hooker). 7: 259. 1896, non (Torr.) Torr. ex A. Gray, 1834

Type. Pakistan: Hazara District; Panj Gali, alt 6900 ft.; *J.F. Duthie 7611* (K) and many syntypes.

Distribution. Jammu and Kashmir, Himachal Pradesh [China, Nepal, Pakistan].

Habit. Perennial.

1402. *Muhlenbergia himalayensis* Hack. ex Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 259. 1896

Type. Western Himalaya, alt. 6000–7000 ft., Chamba to Simla; *Thomson s.n.*, *Madden s.n.*

Distribution. Jammu and Kashmir, Himachal Pradesh, Maharashtra, Uttar Pradesh, Uttarakhand [Afghanistan, Bhutan, China, Nepal].

Habit. Perennial.

1403. *Muhlenbergia huegelii* Trin., Mém. Acad. Imp. Sci. Saint-Pétersbourg, Sér. 6, Sci. Math. Seconde Pt. Sci. Nat. 6, 4(3–4): 293. 1841

Muhlenbergia geniculata Nees, Syn. Pl. Glumac. (Steudel) 1: 178. 1854. Type: Nepal.

Muhlenbergia viridissima Nees, Syn. Pl. Glumac. (Steudel) 1: 178. 1854. Type: India, *Royle 271*

Type. Himalaya: Massuri, *de Hugel s.n.*

Distribution. Assam, Jammu and Kashmir, Himachal Pradesh, Sikkim, Uttar Pradesh, Uttarakhand [Afghanistan, Bhutan, China, Nepal, Pakistan].

Habit. Perennial.

1404. *Muhlenbergia mexicana* (L.) Trin., Gram. Unifl. Sesquifl. 189. 1824

Agrostis mexicana L., Mant. Pl. 31. 1767. Type: “Habitat in America calidiore. D. Jacquin.” Lectotype: *Herb. Linn. No. 84.33* (LINN). LT designated by Fernald in *Rhodora* 45: 225. t. 751. 1943.

Podosemum mexicanum (L.) Link, Hort. Berol. [Link] 1: 84. 1827

Trichochloa mexicana (L.) Trin., Fund. Agrost. (Trinius) 117. 1820

Vilfa mexicana (L.) P. Beauv., Ess. Agrostogr. 16, 148, 161. 1812

Agrostis tenacissima L. f., Suppl. Pl. 107. 1782(“1781”). Type: “Habitat in India Orientali.”

Distribution. Uttarakhand. Naturalized; native to North America.

Habit. Perennial.

***Orinus* Hitchc., J. Wash. Acad. Sci. 23: 136. 1933**

Type. *Orinus arenicola* Hitchc.

1405. *Orinus thoroldii* (Stapf ex Hemsl.) Bor, Kew Bull. 1951: 454. 1952 (“1951”)

Diplachne thoroldii Stapf ex Hemsl., J. Linn. Soc., Bot. 30: 121. 1894. Type: China: Tibet, alt. 16000 ft.; July–September, 1891; *Thorold* 120 (K).

Orinus arenicola Hitchc., J. Wash. Acad. Sci. 23(3): 136. 1933. Type: India: Ladak, Kashmir, Tsaka, alt. 15000 ft.; July 18, 1931; *Walter Koelz* 2365 (US-1535771)

Distribution. Jammu and Kashmir, Ladakh. [China, Nepal].

Habit. Perennial.

Remarks. Records for Jammu and Kashmir and Nepal fide Naithani (1990).

***Oropetium* Trin., Fund. Agrost. (Trinius) 98. 1820**

Type. *Oropetium thomaeum* (L. f.) Trin. (*Nardus thomaea* L. f.).

1406. *Oropetium roxburghianum* (Steud.) S.M. Phillips, Kew Bull. 30(3): 469. 1975

Lepturus roxburghianus Steud., Syn. Pl. Glumac. 1: 357. 1854. Type: India Orientalis; *Roxburgh s.n.*

Tripogon roxburghianus (Steud.) Bhide, J. Proc. Asiat. Soc. Bengal (n. s.) 7(8): 515. 1912 (“1911”) [Basionym reference not given]

Distribution. Andhra Pradesh, Karnataka, Madhya Pradesh, Maharashtra, Rajasthan, Tamil Nadu.

Habit. Perennial.

Remarks. Tropical Asia.

1407. *Oropetium thomaeum* (L.f.) Trin., Fund. Agrost. (Trinius) 98. t. 3. 1820

Nardus thomaea L.f., Suppl. Pl. 105. 1782 ("1781"). Type: "Habitat in Tranquebaria ad Montem Sancti Thomae." India; *Koenig s.n.* (LINN).

Rottboellia thomaea (L.f.) Willd., Sp. Pl., ed. 4 [Willdenow] 1(1): 464. 1797

Distribution. Andhra Pradesh, Bihar, Chhattisgarh, Gujarat, Delhi, Haryana, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Punjab, Rajasthan, Tamil Nadu, Uttar Pradesh, West Bengal [Myanmar, Pakistan, Sri Lanka].

Habit. Caespitose annual.

1408. *Oropetium villosulum* Stapf ex Bor, Kew Bull. 1949: 571. 1950 ("1949")

Type. India: Central Provinces, Nimar District, Humra; December 21, 1888; *J.F. Duthie* 8523 (K).

Distribution. Bihar, Chhattisgarh, Karnataka, Madhya Pradesh, Maharashtra, Odisha, Rajasthan.

Habit. Annual.

Remarks. Records for Karnataka, Madhya Pradesh, Maharashtra and Odisha fide Naithani (1990).

***Perotis* Aiton, Hortus Kew. (W. Aiton) 1: 85 1789**

Type. *Perotis latifolia* Aiton, nom. illeg. (*Saccharum spicatum* L., *Perotis spicata* (L.) T. Durand & H. Durand).

1409. *Perotis hordeiformis* Nees in Hook. & Arn., Bot. Beechey Voy. 6: 247–248. 1838

Perotis birmanica Gand., Bull. Soc. Bot. France 66(7): 301. 1920 ("1920"). Type: Birmania: Minbu; *Mokin* 560

Perotis glabrata Steud., Syn. Pl. Glumac. 1: 186. 1854. Type: Philippines; *H. Cuming* 1399 (L).

Type. Himalaya Mountain; *Royle* 280.

Distribution. Rajasthan, Uttar Pradesh, West Bengal [China, Myanmar, Nepal, Pakistan, Sri Lanka].

Habit. Annual.

1410. *Perotis indica* (L.) Kuntze, Revis. Gen. Pl. 2: 787. 1891 var. *indica*

Anthoxanthum indicum L., Sp. Pl. 1: 28. 1753. Type: “Habitat in India.” Lectotype: *Herb. Hermann* 1: 29, No. 25 (BM-000621332). LT designated by Clayton in Polhill (ed.), Fl. Trop. E. Africa, Gramineae 2: 395. 1974.

Perotis patula Nees in Hook. & Arn., Bot. Beechey Voy. 6: 247–248. 1838

Perotis perottetii Gand., Bull. Soc. Bot. France 66: 301. 1920 (“1919”). Type: India: Nilagiri Mountains; *Perrottet* 1390

Saccharum spicatum L., Sp. Pl. 1: 54. 1753. Type: “Habitat in Indiae petrosis.” Lectotype: “Tsjeria-kuren-pullu” in Rheede, Hort. Malab. 12: 117. t. 62. 1693. LT designated by Clayton in Polhill (ed.), Fl. Trop. E. Africa, Gramineae 2: 395. 1974.

Perotis spicata (L.) T. Durand & H. Durand, Syll. Fl. Congol. 628. 1909

Perotis latifolia Aiton, Hortus Kew. (W. Aiton) 1: 85. 1789, nom. superfl. & illeg.

Perotis hordeiformis sensu Trin., Mém. Acad. Imp. Sci. Saint-Petersbourg, Sér. 6, Sci. Math., Seconde Pt. Sci. Nat. 6(2): 267. 1841, non Hook. & Arn. 1838

Distribution. Andhra Pradesh, Assam, Bihar, Chhattisgarh, Daman and Diu, Delhi, Goa, Himachal Pradesh, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Rajasthan, Tamil Nadu, Uttar Pradesh, West Bengal [Bhutan, China, Myanmar, Nepal, Sri Lanka].

Habit. Annual.

1411. *Perotis indica* (L.) Kuntze var. *keelakaraiensis* P. Umam. & P. Daniel, J. Econ. Taxon. Bot. 23(3): 691. 1999

Type. India: Tamil Nadu, Ramanathapuram District, Keelakarai; December 15, 1995; P. Daniel & P. Umamaheswari 106547 (CAL).

Distribution. Andhra Pradesh, Karnataka, Kerala, Maharashtra, Tamil Nadu.

Habit. Annual.

1412. *Perotis ornithocephala* (Hook.) P.M. Peterson, Taxon 63(2): 284. 2014

Holboellia ornithocephala Hook., Bot. Misc. 2: 144. t. 76. 1831. Type: “In India orientali, apud montes Madurae; *Koenig s.n.*, *Wight s.n.*, M.D.”

Lopholepis ornithocephala (Hook.) Steud., Syn. Pl. Glumac. 1: 112. 1854

Distribution. Kerala, Tamil Nadu [Sri Lanka].

Habit. Annual.

Remarks. Following Peterson et al. (2014a), *Lopholepis* is subsumed in *Perotis*.

Pommereulla* Naezén, Nov. Gram. Gen. 31. 1779*Type.** *Pommereulla cornucopiae* L. f.**1413. *Pommereulla cornucopiae* L.f., Suppl. Pl. 105. 1782 (“1781”)****Type.** “Habitat in India.”**Distribution.** Andhra Pradesh, Karnataka, Tamil Nadu [Sri Lanka].**Habit.** Perennial.***Schoenefeldia* Kunth, Révis. Gramin. 1: 86. 1829****Type.** *Schoenefeldia gracilis* Kunth.**1414. *Schoenefeldia gracilis* Kunth, Révis. Gramin. 1: 87. 1829; 1: 283. t. 53. 1830***Chloris myosuroides* Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 290. 1896. Type: India: Gangetic Plain, ravines near Etawah; *Duthie s.n.**Schoenefeldia pallida* Edgew., J. Asiat. Soc. Bengal 21: 183. 1852*Chloris pallida* (Edgew.) Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 289. 1896, non Willd., 1806. nom. illeg. hom.**Type.** “Crescit in Senegalia.” Africa: Senegal, dry sandy places; *Kunth s.n.* (B).**Distribution.** Bihar, Gujarat, Rajasthan [Pakistan].**Habit.** Annual.***Tetrapogon* Desf., Fl. Atlant 2: 388. 1799 (“1800”)****Type.** *Tetrapogon villosus* Desf. (as “villosum”).**1415. *Tetrapogon tenellus* (J. Koenig ex Roxb.) Chiov., Annuario Reale Ist. Bot. Roma 8: 352. 1908 (as “tenellum”)***Chloris tenella* J. Koenig ex Roxb., Fl. Ind. (Carey and Wallich ed.) 1: 330. 1820. Type: “A native of the Peninsula of India.” Lectotype: India; *Roxburgh painting 2022* (K). LT cited by Ali Chaudahry in Grass. Saudi Arabia 302. 1989

Chloris triangulata Hochst. ex A. Rich., Tent. Fl. Abyss. 2: 409. 1850–1851. Type: “Crescit in valle Mai-Ouid (Fons-Calidus) provinciae Medat, Schimper, pl. Schimp. Abyss., sect. II, 1048”

Tetrapogon triangularis Hochst. ex Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 291. 1896, pro syn.

Ctenium indicum Spreng., Syst. Veg. (ed. 16) [Sprengel]. 1: 274. 1824 (“1825”), nom. superfl. & illeg. for *Chloris tenella*

Distribution. Andhra Pradesh, Bihar, Delhi, Gujarat, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Punjab, Rajasthan, Tamil Nadu [Pakistan].

Habit. Annual.

1416. *Tetrapogon villosus* Desf., Fl. Atlant. 2: 389, t. 255. 1799 (as “villosum”)

Chloris villosa (Desf.) Pers., Syn. Pl. (Persoon) 1: 87. 1805

Chloris tetrapogon P. Beauv., Ess. Agrostogr. 158. 1812, nom. superfl. for *Tetrapogon villosus*

Type. “Habitat in Arenis prope Cafsam.” Africa: Tunisia, Cafsam, desert areas and dry Mountain slopes; *Desfontaines s.n.* (P).

Distribution. Gujarat, Himachal Pradesh, Rajasthan [Pakistan].

Habit. Perennial.

***Tragus* Haller, Hist. Stirp. Helv. 2: 203. 1768, nom. cons.**

Type. *Tragus racemosus* (L.) All. (*Cenchrus racemosus* L.).

1417. *Tragus mongolorum* Ohwi, Acta Phytotax. Geobot. 10: 268. 1941

Tragus roxburghii Panigrahi, Kew Bull. 29: 496. 1974. Type: India: Tamil Nadu, Madras, Vela Cherry; July, 1845; *G. Thomson s.n.* (K).

Tragus biflorus auct. non (Roxb.) Schultes, 1824: Senaratna, Grasses of Ceylon 102. 1956

Tragus racemosus sensu Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 97. 1896, non Scop., 1777, nec (L.) All., 1785

Type. Mongolia.

Distribution. Andhra Pradesh, Assam, Bihar, Delhi, Gujarat, Jammu and Kashmir, Himachal Pradesh, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Megha-

laya, Odisha, Punjab, Rajasthan, Tamil Nadu, Uttar Pradesh, Uttarakhand, West Bengal [China, Myanmar, Pakistan, Sri Lanka].

Habit. Annual.

***Trigonochloa* P.M. Peterson & N. Snow, Ann. Bot. 109: 1327. 2012**

Type. *Trigonochloa uniflora* (Hochst. ex A Rich.) P.M. Peterson & N. Snow (*Leptochloa uniflora* Hochst. ex A. Rich.).

1418. *Trigonochloa uniflora* (Hochst. ex A Rich.) P.M. Peterson & N. Snow, Ann. Bot. 109: 1328. 2012

Leptochloa uniflora Hochst. ex A. Rich., Tent. Fl. Abyss. 2: 409. 1850–1851. Type: “Crescit in valle fluvii Tacazzé sub arborum umbra, mense Augusto, Schimper, pl. Abyss. Schimp., sect. III, 1707.” Ethiopia: Tacaze; August 15, 1840; *Schimper 1707* (P).

Craspedorhachis uniflora (Hochst. ex A. Rich.) Chippind., Grass. Pastures South Africa 205. f. 182. 1955

Cynodon gracilis Nees, Syn. Pl. Glumac. (Steudel) 1: 213. 1854. Type: India; *Wight s.n.* as *Leptochloa gracilis*

Agrostis montana Rottl. ex Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 298. 1896, pro syn.

Distribution. Andhra Pradesh, Kerala, Tamil Nadu [Sri Lanka, Asia, Africa, Arabia].

Habit. Annual or perennial.

***Tripogon* Roem. & Schult., Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 34. 1817**

Type. *Tripogon bromoides* Roem. & Schult.

Notes. Taxonomic editor for *Tripogon*, Alok R. Chorge, National Museum of Natural History (New Delhi).

1419. *Tripogon anantaswamianus* Sreek., V.J. Nair & N.C. Nair, Bull. Bot. Surv. India 25(1–4): 185. f. 1. 1985 (“1983”)

Type. India: Kerala, Idukki District, alt. 6400 ft.; November 15; 1980; *P.V. Sreekumar 69432* (CAL).

Distribution. Kerala, Tamil Nadu.

Habit. Perennial.

1420. *Tripogon ashihoi* M. Murugesan, S. Arumugam & K.A.A. Kabeer, Indian Journal Forestry 42(1): 67. 2019

Type. India: Tamil Nadu, Coimbatore district, Ayyamalai, 600 – 1200 m, 18 October 2014, *Murugesan* 207 A (holotype: MH; isotypes: 2017 B-D MH).

Distribution. Tamil Nadu.

Habit. Perennial.

1421. *Tripogon bimucronatus* Thoiba & Sunil, Gard. Bull. Singapore 67(1): 151, f. 1. 2015

Type. India: Kerala, Palakkad District, Nelliampathy hilltop, 1200 m, 16 November 2010, *Sunil, C. N.* 4477 (holotype SING; isotype: BRIT, CALI, K).

Distribution. Kerala.

Habit. Perennial.

1422. *Tripogon borii* Kabeer, V.J. Nair & G.V.S. Murthy, Bull. Bot. Surv. India 50: 115, f. 1. 2009 (“2008”)

Type. India: Tamil Nadu, Kanyakumari district, Nagercoil, Marunthuvamalai, 360 m, 30 November 2005, *K. Aftaf Ahamed Kabeer* 118632 (holotype: CAL; isotype: MH).

Distribution. Tamil Nadu.

Habit. Perennial.

1423. *Tripogon bromoides* Roem. & Schult., Syst. Veg., ed. 15 bis [Roemer & Schultes]. 2: 600. 1817

Tripogon bromoides Roem. & Schult. var. *major* Stapf ex Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 288. 1896. Type: India: Nilghiri Hills, Nadavattam, alt. 6000 ft.; *Lawson s.n.*

Tripogon bromoides Roem. & Schult. var. *longifolius* Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 288. 1896. Type: India: Nilghiri and Pulney Hills

Tripogon festucoides Jaub. & Spach, Ill. Pl. Orient. 4: 49. t. 333. 1851. Type: “India montibus Nelligerry dictis legit *Perrottet*, anno 1840 (Herb. Mus. Par.). “

Tripogon lanatus Hochst. ex Steud., Syn. Pl. Glumac. 1: 301. 1854. Type: “Montes Nilagiri, Hrbr Ind. or. *A Hohenack. Edit nr. 922.*”

Tripogon zeylanicus sensu Thwaites, Enum. Pl. Zeyl. (Thwaites). 374. 1864, non Nees ex Steud., 1855

Avena mysorensis Spreng., Syst. Veg. (ed. 16) [Sprengel] 1: 337. 1824 (“1825”), nom. superfl. & illeg. for *Tripogon bromoides*

Plagiolytrum calycinum Nees, Proc. Linn. Soc. London 1: 95. 1841, nom. nud.

Triathera bromoides Roth ex Roem. & Schult., Syst. Veg., ed. 15 bis [Roemer & Schultes]. 2: 600. 1817, nom. nud., pro syn.

Type. “Heyne in Mysore.”

Distribution. Andhra Pradesh, Bihar, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Meghalaya, Odisha, Rajasthan, Tamil Nadu [Nepal, Sri Lanka].

Habit. Perennial.

1424. *Tripogon capillatus* Jaub. & Spach, Ill. Pl. Orient. 4: 47, t. 332. 1851

Type. “Peninsula Indica, circa urben Poonah, inter Muscos supra arbores et saxa, Legit Jacquemont, September anni 1832 (Herb Mus. Par.) India: Poona; September, 1832; *V. Jacquemont* 580 (L).

Distribution. Bihar, Goa, Gujarat, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Nepal, Rajasthan, Tamil Nadu [Nepal].

Habit. Annual.

1425. *Tripogon copei* Newmaster, V. Balas., Murug. & Ragup., Syst. Bot. 33(4): 698, f. 2. 2008

Type. India: Tamil Nadu, Velliangiri Hills, 1840 m, 18 December 2006, *Ragu and Newmast* 55277 (holotype: OAC; Isotype: KASCH).

Distribution. Tamil Nadu.

Habit. Annual.

1426. *Tripogon filiformis* Nees, Syn. Pl. Glumac. (Steudel) 1: 301. 1854

Tripogon filiformis var. *tenuispica* Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 288. 1896. Type: N.W. Himal., Sikkim and Khasia Hills; *Numer. List [Wallich]* no. 8892

Tripogon semitruncatus Nees, Syn. Pl. Glumac. (Steudel) 1: 301. 1854. Type: “In monte Laeou Javae.”

Tripogon unidentatus Nees, Syn. Pl. Glumac. (Steudel) 1: 301. 1854. Type: “India Orientali” North West India: [India herb. of Dr. Royle p. 92] (P).

Plagiolytrum unidentatum Nees, Proc. Linn. Soc. London 1: 95. 1841, nom. nud.

Plagiolytrum filiforme Nees, Proc. Linn. Soc. London 1: 95. 1841, nom. nud.

Type. India: Northwest; *Herb. Royle s.n.* (P).

Distribution. Arunachal Pradesh, Assam, Himachal Pradesh, Jammu and Kashmir, Maharashtra, Meghalaya, Nagaland, Sikkim, Uttar Pradesh, Uttarakhand [Bhutan, China, Myanmar, Nepal, Pakistan].

Habit. Perennial.

1427. *Tripogon idukkianus* Sunil, Pradeep and Thoiba, *Phytotaxa* 202: 295, f. 1. 2015

Type. India: Kerala, Idukki district, Ramakkalemedu, 1500 m, 10 November 2002, C. N. Sunil 2267 (holotype: K; isotypes: CALI, MH).

Distribution. Kerala.

Habit. Perennial.

1428. *Tripogon jacquemontii* Stapf, *Bull. Misc. Inform. Kew* 1892: 85. 1892

Syntypes. Habitat in India from western Ghats to Bengal. Bombay Presidency; *Lisboa s.n.*; *G.M. Woodrow* 79. Poona; *Jacquemont* 320 bis. Sholapur, Herb Munro. Bengal; *Griffith Kew Distribution* no. 6636 (K).

Distribution. Andhra Pradesh, Assam, Bihar, Gujarat, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Odisha, Rajasthan, Tamil Nadu, West Bengal.

Habit. Perennial.

1429. *Tripogon jayachandranii* Arum. & Murugan, *Indian J. Forest.* 40: 159. 2017

Type. India: Tamil Nadu, Theni District, Meghamalai Wildlife Sanctuary, 1450 m, 04 October 2016, *Arumugam, S. & C. Murugan* 134462 (holotype: CAL; Isotypes: MH).

Distribution. Tamil Nadu.

Habit. Perennial.

1430. *Tripogon karnatakensis* Thoiba & Pradeep, *Phytotaxa* 272 (2): 126, f. 1, 2. 2016

Type. India: Karnataka, Chikmagalur district, Kavikal Gandhi Hills, 1450 m, 13 September 2014, *T. Kottekkattu & M. Yoonus T* 137510 (holotype: CAL; isotype: CALI, MH, K).

Distribution. Karnataka.

Habit. Perennial.

1431. *Tripogon lisboae* Stapf, Bull. Misc. Inform. Kew 1892: 84. 1892

Syntypes. India: Canara and Mysore to Mt. Abu, Canara and Mysore; *J.S. Law s.n.* Bombay Presidency; *Lisboa s.n.* On the rocks near the Carley Coves, near Poonah; *Jacquemont 581*; Rajputana, Mt. Abu, on rocks; *Duthie 6788*.

Distribution. Bihar, Gujarat, Karnataka, Madhya Pradesh, Maharashtra, Rajasthan, Tamil Nadu.

Habit. Perennial.

1432. *Tripogon mahendragiriensis* Chorghe, Sangita Dey, K. Prasad, Prasanna & Y. V. Rao, Nordic Journal of Botany 33: 655. 2015

Type. India, Odisha state, Gajapati District, Mahendragiri Hill, 17th September 2014, *Chorghe & Prasad 4210* (BSID, CAL).

Distribution. Odisha.

Habit. Perennial.

1433. *Tripogon malabarica* Thoiba & Pradeep, J. Bot. Res. Inst. Texas 8(2): 523. 2014

Type. India, Kerala, Kozhikode district, Malabar Wildlife Sanctuary, Kakkayam, 990 m, *Thoiba Kottekkattu 134436* (BRIT, CALI).

Distribution. Kerala.

Habit. Perennial.

1434. *Tripogon munnarensis* Thoiba, Manudev & Pradeep, Phytotaxa 272: 130, f. 4, 5. 2016

Type. India: Kerala, Idukki district, Munnar Udumbanchola, near Mundiayaruma, 1430 m, 16 December 2014, *T. Kottekkattu & A. K. Pradeep 144105* (CAL, CALI, MH, K).

Distribution. Kerala.

Habit. Perennial.

1435. *Tripogon nallamalayanus* Rasingam & J. Swamy, Phytotaxa 351(4): 296. 2018

Type. India: Telangana, Mahbubnagar district, Umamaheshwaram, 700 m, 22 October 2016, *L. Rasingam & J. Swamy 7396* (holotype: CAL; isotypes: BSID).

Distribution. Telangana.

Habit. Perennial.

1436. *Tripogon narayanae* Sreek., V.J. Nair & N.C. Nair, J. Bombay Nat. Hist. Soc. 80: 196. f. 1–9. 1983 (as “narayanii”)

Type. India: Kerala, Idukki District, Eravikulam National Park, alt. 6400 ft.; August 28, 1980; *P.V. Sreekumar* 68412 (CAL).

Distribution. Kerala, Tamil Nadu.

Habit. Perennial.

1437. *Tripogon paramjitianus* Murug., Arum. & Kabeer, Indian J. Forest. 40 (3): 285. 2017

Type. India: Tamil Nadu, Velliangiri hills, Western Ghats, 22 November 2014, *Murugesan* 302 A (holotype & isotype: MH).

Distribution. Tamil Nadu.

Habit. Perennial.

1438. *Tripogon polyanthus* Naik & Patunkar, Bull. Bot. Surv. India 15: 158. 1976 (“1973”)

Type. India: Deccan Plateau, Marathwada, Daulatabad; October 18, 1973; *Patunkar* 1859A (Marathwada University, Aurangabad).

Distribution. Bihar, Maharashtra.

Habit. Perennial.

1439. *Tripogon pungens* C.E.C. Fisch., Bull. Misc. Inform. Kew 1934: 170–172. f. 4. 1934

Type. India: South Coimbatore District, Anaimalis Hills, Punachi, 3500 ft.; *C.A. Barber* 3717 (K).

Distribution. Karnataka, Maharashtra, Tamil Nadu.

Habit. Perennial.

Remarks. Distribution in India fide Naithani (1990).

1440. *Tripogon purpurascens* Duthie, Ann. Roy. Bot. Gard. (Calcutta) 9: 74. t. 92. 1901

Tripogon jacquemontii Stapf var. *submuticus* Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 287. 1896. Syntypes: India: Western Himalaya, below Kotgurh; *Thomson s.n.* Simla, alt. 7000–8000 ft.; *Duthie s.n.*

Tripogon abyssinicus sensu Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 287. 1896, p.p., non Nees ex Steud., 1854

Tripogon hookerianus Bor ex Sultan & R.R. Stewart, Grasses of West Pakistan 2: 254. 1959, nom. invalid.

Tripogon hookerianus Bor, Grasses Burma, Ceyl., Ind. & Pakist. 522. 1960, nom. invalid.

Type. India: Western Himalaya, Tehri-Garhwal, Tons Valley, 3000–7000 ft.; *Duthie 23532*, *Duthie 22699* (K).

Distribution. Himachal Pradesh, Karnataka, Maharashtra, Rajasthan, Tamil Nadu, Uttar Pradesh, Uttarakhand [Afghanistan, Bhutan, China, Nepal, Pakistan].

Habit. Perennial.

1441. *Tripogon ravianus* Sunil & Pradeep, Sida 19(4): 803. 2001

Type. India: Tamil Nadu, Nilgiri District, Pykara near Udagamandalam, alt. 6200 ft.; December 3, 2000; *Sunil 2176* (BRIT).

Distribution. Tamil Nadu.

Habit. Perennial.

1442. *Tripogon rupestris* S.M. Phillips & S.L. Chen, Kew Bull. 57(4): 917. 2002

Type. China, Xizang, Dudh Kosi Gorge; 30 Aug 1982; *Miehe 808* (K).

Distribution. Uttarakhand [China, Nepal].

Habit. Perennial.

1443. *Tripogon sivarajanii* Sunil, Sida 18(3): 809. f. 1. 1999

Type. India: Kerala, Idukki District, Valakettimala near Moolamattam, 3200 ft.; September 2, 1997; *C.N. Sunil 2117* (MH).

Distribution. Kerala.

Habit. Perennial.

1444. *Tripogon tirumalae* Chorghe, Rasingam, Prasanna & M. Sankara Rao, *Phytotaxa* 131 (1): 17, 2013

Type. India, Andhra Pradesh, Tirumala Hills, 4th September 2012, *L. Rasingam, M. S. Rao & Alok Chorghe 2914* (Holotype CAL, Isotype BSID).

Distribution. Andhra Pradesh.

Habit. Perennial.

1445. *Tripogon trifidus* Munro ex Hook. f., *Fl. Brit. India* (J.D. Hooker). 7(22): 286. 1896

Tripogon trifidus Munro ex Stapf, Bull. Misc. Inform. Kew 1892: 85. 1892, nom. invalid. Lectotype: India: Meghalaya, Khasia; *Griffith HEIC (KD) 6634* (K). LT designated by H.J. Noltie in *Edinburgh J. Bot.* 56(3): 394. 1999.

Distribution. Maharashtra, Meghalaya, Sikkim [Bhutan, China, Myanmar, Nepal].

Habit. Perennial.

1446. *Tripogon umaganeshii* B.R.P. Rao & M. Anil Kumar, *Indian J. Forest.* 41: 97. 2018 (as “*uma-ganeshii*”)

Type. India: Andhra Pradesh, Horsley hills, 1195 m elevation, 19 September 2016, *B.R. Prasad Rao & M.A. Kumar 51980* (holotype: SKU; isotype: BSID).

Distribution. Andhra Pradesh.

Habit. Perennial.

1447. *Tripogon vellarianus* Pradeep, *Sida* 18(3): 811. f. 2. 1999

Type. India: Kerala, Kozhikode District, Vellarimala, 11°25.877'N, 76°06.765'E, 4200 ft.; October 17, 1997; *A.K. Pradeep 56110* (MH).

Distribution. Kerala.

Habit. Perennial.

1448. *Tripogon velliangiriensis* Murug. & V. Balas., *Indian J. Forest.* 31(1): 109. 2008

Type. India: Tamil Nadu, Coimbatore district, Velliangiri hills, 1850 m, 12 September 2003, Murugesan 1181 (holotype: KASCH; isotype: MH).

Distribution. Tamil Nadu.

Habit. Annual.

1449. *Tripogon wightii* Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 286. 1896
var. *wightii*

Type. India: Mysore, Bellary; 1834; *Wight 1793* (K).

Distribution. Andhra Pradesh, Karnataka, Kerala, Tamil Nadu.

Habit. Perennial.

1450. *Tripogon wightii* Hook. f. var. *kanyakumariensis* Kabeer & V.J. Nair, Fl. Tamil Nadu: Grasses 183, 2009

Type. India: Tamil Nadu, Kanyakumari District, Mothiramalai, Thomarai, near Pechiparai, alt. 2000 ft.; December 16, 2005; *K.A.A. Kabeer 118769* (MH).

Distribution. Tamil Nadu.

Habit. Perennial.

Subfamily Micrairoideae Pilg., 1956

Micrairoideae is a subfamily with no obvious synapomorphies, although most species have spikelets with only two flowers (Kellogg 2015b). The ligule is a fringe of hairs. The genera are morphologically heterogeneous, and include both C_3 and C_4 species, some of which are adapted to forest shade and others to extreme drought (Hardion et al., 2017; Teisher et al. 2019).

Taxonomic editors: Jordan K. Teisher, Drexel University, Philadelphia, P. (Parigi) Venkateswara Prasanna, Botanical Survey of India, and Alok R. Chorghe, Botanical Survey of India.

***Coelachne* R. Br., Prodr. Fl. Nov. Holland. 187. 1810**

Type. *Coelachne pulchella* R. Br.

1451. *Coelachne minuta* Bor, J. Bombay Nat. Hist. Soc. 58: 317. 1961

Coelachne ghatica Naik, Reinwardtia 9(4): 393, f. 1. 1980. Type: India: Western Ghats, Amboli Hill station; September 13, 1971; *V.N. Naik 1300a* (Herb. MU Aurangabad).

Type. India: Bombay, Mahabaleshwar; September 14, 1958; *H. Santapau 22731* (K).

Distribution. Bihar, Maharashtra [China].

Habit. Annual.

1452. *Coelachne perpusilla* (Arn. ex Steud.) Thwaites, Enum. Pl. Zeyl. (Thwaites). 373. 1864 var. *perpusilla*

Panicum perpusillum Arn. ex Steud., Syn. Pl. Glumac. 1: 96. 1854. Type: Sri Lanka
Coelachne perpusilla (Arn. ex Steud.) Thwaites var. *muscosa* Hook. f. in Trimen, Handb. Fl. Ceylon 5: 270. 1900
Coelachne pulchella R. Br. var. *perpusilla* (Arn. ex Steud.) Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 271. 1896.

Distribution. Kerala, Manipur, Maharashtra, Tamil Nadu [Myanmar, Sri Lanka].

Habit. Perennial.

1453. *Coelachne perpusilla* (Arn. ex Steud.) Thwaites var. *nilagirica* V. Prakash & S.K. Jain, Bull. Bot. Surv. India 24(1–4): 187. f. 12. 1983 (“1982”)

Type. India: Tamil Nadu, Nilgiri District, Parthimund, alt. 7500 ft.; July 11, 1970; I.L. Ellis 34627 (CAL).

Distribution. Kerala, Tamil Nadu.

Habit. Perennial.

1454. *Coelachne simpliciuscula* (Wight & Arn. ex Steud.) Munro ex Benth., J. Linn. Soc., Bot. 19: 93. 1881

Panicum simpliciusculum Wight & Arn. ex Steud., Syn. Pl. Glumac. 1: 96. 1854. Type: Sri Lanka; Nees s.n.

Coelachne pulchella R. Br. var. *simpliciuscula* (Wight & Arn. ex Steud.) Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 271. 1896

Isachne simpliciuscula (Wight & Arn. ex Steud.) Thwaites, Enum. Pl. Zeyl. (Thwaites). 373. 1864

Isachne hispidula Nees ex Steud., Syn. Pl. Glumac. 1: 96. 1854, nom. nud., pro. syn.
Coelachne pulchella sensu Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 270. 1896, non R. Br., 1810

Distribution. Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Chhattisgarh, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Meghalaya, Nagaland, Odisha, Sikkim, Tamil Nadu, West Bengal [Bhutan, China, Myanmar, Nepal, Sri Lanka].

Habit. Annual.

Eriachne R. Br., Prodr. Fl. Nov. Holland. 183. 1810

Lectotype. *Eriachne squarrosa* R. Br. LT designated by Eck-Borsboom in Blumea 26: 127, 130. 1980.

1455. *Eriachne pallescens* R. Br., Prodr. Fl. Nov. Holland. 1: 184. 1810

Aira chinensis Retz., Observ. Bot. (Retzius) 3: 10. 1783. Type: "E China missit Cl.D. Bladh." China; *Bladh s.n.* (LD).

Tricholaena chinensis (Retz.) Domin, Biblioth. Bot. 20 (Heft. 85): 327. 1915

Eriachne chinensis Hance, Ann. Sci. Nat., Bot. Ser. 4, 15: 228. 1861. Type: "In summis collibus ins. Hongkong necnon ad Whampoa. Legi Aug-Oct. 1861."

Type. Australia: Queensland, Cook District, Endeavor River; *Banks & Solander s.n.* (BM).

Distribution. Andaman and Nicobar Islands, Assam [Bangladesh, China, Myanmar].

Habit. Perennial.

Remarks. *Aira chinensis* and *Eriachne chinensis* are heterotypic synonyms. Thus *E. chinensis* is not based on *A. chinensis*, and the latter cannot be transferred to *Eriachne*.

1456. *Eriachne triseta* Nees, Syn. Pl. Glumac. (Steudel) 1: 237. 1854

Massia triseta (Nees) Balansa, J. Bot. (Morot) 4(9): 165. 1890

Megalachne zeylanica Thwaites, Enum. Pl. Zeyl. (Thwaites). 372, 444. 1864, nom. invalid.

Type. Sri Lanka; *Walker s.n.* (P).

Distribution. North East India [China, Sri Lanka].

Habit. Perennial.

***Hubbardia* Bor, Kew Bull. 1950: 385. 1951**

Type. *Hubbardia heptaneuron* Bor.

1457. *Hubbardia diandra* Chandore, Gosavi & S. R. Yadav, Kew Bull. 67 (3): 533–537. 2012

Type. India, Maharashtra, Kohlapur, Tillari Ghat, 15°47.400'N, 74°10.769'E, 15 Sept. 2010, *Chandore 1301* (Holotype CAL; isotype BSI, K, SUK).

Distribution. Karnataka, Maharashtra.

Habit. Annual.

1458. *Hubbardia heptaneuron* Bor, Kew Bull. 1950: 385. 1951 (“1950”)

Type. India: Bombay, N. Kanara, Jog, Gersoppa Falls, 500 ft.; October, 1919; *L.F. Sedgwick* 7089 (K).

Distribution. Karnataka, Maharashtra.

Habit. Annual.

Remarks. Endangered.

***Isachne* R. Br., Prodr. Fl. Nov. Holland. 196. 1810**

Type. *Isachne australis* R. Br.

1459. *Isachne albens* Trin., Sp. Gram. [Trinius] 1(8): t. 85. 1827 var. *albens*

Type. “Figura ad specimen nepalense.”

Distribution. Andra Pradesh, Arunachal Pradesh, Assam, Himachal Pradesh, Maharashtra, Manipur, Meghalaya, Nagaland, Odisha, Sikkim, Uttar Pradesh, Uttarakhand, West Bengal [Bangladesh, Bhutan, China, Myanmar, Nepal].

Habit. Perennial.

1460. *Isachne albens* Trin. var. *hirsuta* Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 23. 1896

Isachne hirsuta (Hook. f.) Keng, Acta Phytotax. Sin. 10: 11. 1965.

Type. Numer. List [Wallich] no. 8657. Silhet; *De Silva* s.n. Cachar; *Keenan* s.n.

Distribution. Arunachal Pradesh, Assam, Himachal Pradesh, Maharashtra, Manipur, Meghalaya, Nagaland, Sikkim, Uttar Pradesh, West Bengal [Bangladesh, Bhutan, China, Nepal].

Habit. Perennial.

1461. *Isachne angladei* C.E.C. Fisch., Bull. Misc. Inform. Kew 1932: 323. 1932

Type. India: “Pulney Hills”, Shembaganur, alt. 6000 ft.; *L. Anglade* 914.

Distribution. Karnataka, Maharashtra, Tamil Nadu.

Habit. Perennial.

Remarks. Records for Karnataka and Tamil Nadu fide Naithani (1990).

1462. *Isachne bhatii* P. Biju, Josekutty & Augustine, Int. J. Pl. Anim. Environm. Sci. 6(3): 135. 2016

Type. India: Kerala, Kannur district, Kalliad lateritic plateau, 82 m, 23 August 2014, Biju & Jonny 2491 (holotype CAL, iso MH).

Distribution. Kerala.

Habit. Annual.

1463. *Isachne bicolor* Naik & Patunkar, Bull. Bot. Surv. India 15(1–2): 157. 1976(“1973”)

Type. India: Maharashtra, Aurangabad District, Mhaismal Plateau; October 8, 1973; *B.W. Patunkar 1849A* (Marathwada University Aurangabad).

Distribution. Bihar, Maharashtra.

Habit. Perennial.

1464. *Isachne borii* Hemadri, Indian Forester 97(4): 223. 1971

Type. India: Maharashtra, Puna District, 27 km West of Junnar, Dhak Khilla; September 22, 1968; *Hemadri 117968A* (CAL).

Distribution. Maharashtra.

Habit. Annual.

1465. *Isachne bourneorum* C.E.C. Fisch., Bull. Misc. Inform. Kew 1932: 324. 1932

Type. India: Tamil Nadu, Palni Hills, Kodaikanal, alt. 6500 ft.; June 14, 1898; *Sir A.G. & Lady Bourne 2491*.

Distribution. Karnataka, Kerala, Tamil Nadu.

Habit. Perennial.

Remarks. Record for Karnataka fide Naithani (1990).

1466. *Isachne clarkei* Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 24. 1896

Lectotype. North East India: Kohima, alt. 5000 ft.; October 20, 1885S; *C.B. Clarke s.n.* (K). LT designated by M. Phillips & S.L. Chen, Novon 15(3): 465. 2005.

Distribution. Meghalaya, Nagaland, Sikkim [China, Myanmar].

Habit. Annual.

1467. *Isachne confusa* Ohwi, Bull. Tokyo Sci. Mus. 18: 14. 1947

Isachne rigida Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 24. 1896, non Nees ex Steud., 1854

Type. Indonesia: Sumatra, Bangka Island; *Bunnemeijer 1577 in Herb. Bogor.*

Distribution. Andaman and Nicobar Islands [China].

Habit. Perennial.

1468. *Isachne deccanensis* Bor, Kew Bull. 1949: 95–96. 1949

Type. India: Tamil Nadu, Nilgiris, Ootacamund Downs; August, 1884; *Gamble 15290* (K).

Distribution. Tamil Nadu.

Habit. Perennial.

1469. *Isachne dimyloides* Bor, Kew Bull. 1949: 96. 1949

Type. India: Sikkim Terai, Dulkajhar, alt. 700 ft.; October 16, 1884; *C.B. Clarke 36764* (K).

Distribution. Sikkim.

Habit. Annual.

1470. *Isachne edamalayarensis* Sunil, Naveen Kum. & Sivad., Nordic J. Bot. 35(3): 354–358. 2016

Type. India: Kerala, Ernakulam district, Edamalayar Forest Range, 913 m a.s.l., 26 December 2014, *S. and N. Kumar 6926* (holotype: MH, Isotypes: CAL).

Distribution. Kerala.

Habit. Perennial.

1471. *Isachne elegans* Dalzell in Dalzell & A. Gibson, Bombay Fl. 291. 1861

Type. India: Deccan, on the margins of rivulets; *Dalzell s.n.*

Distribution. Karnataka, Maharashtra, Rajasthan, Tamil Nadu.

Habit. Annual.

1472. *Isachne fischeri* Bor, Kew Bull. 1949: 69–70. 1949

Type. India: Kerala, Madras, Summit of Anaimudi, Travancore High Range, 8840 ft.; September, 1933; *E. Barnes s.n.* (K).

Distribution. Kerala.

Habit. Annual.

Remarks. Taxonomic editor Teisher questions the interpretation of “Madras” in the description of the type. He notes that “the specimen is cited as part of a project on the Flora of Madras, and Madras is another name for Chennai, the capital of Tamil Nadu. However, I think it more likely refers to the historic Madras Presidency, which covered most of Southern India, including Kerala. Anamudi is a mountain in Kerala. Thus, I would recommend emending the type description, which would include Kerala and exclude the Tamil Nadu distribution.”

1473. *Isachne globosa* (Thunb.) Kuntze, Revis. Gen. Pl. 2: 778. 1891

Milium globosum Thunb., in J. A. Murray, Syst. veg. ed. 14: 109. 1784. Type: Japan: without specific locality; *Thunberg 2041* (UPS).

Isachne australis R. Br., Prodr. Fl. Nov. Holland. 1: 196. 1810. Type: Australia: New South Wales, inclusis ripis aestuarii Hunter’s River vel Coal River (Page VI in Praemonenda); *R. Brown 6129* (BM).

Isachne australis R. Br. var. *effusa* Trimen ex Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 25. 1896. Type: Sri Lanka: Peradeniya; *Trimen s.n.*

Isachne miliacea Roth, Syst. Veg., ed. 15 bis [Roemer & Schultes]. 2: 476. 1817. Type: India: *Heyne 1814* (BM).

Isachne dispar Trin., Sp. Gram. [Trinius] 1(8): t. 86. 1827 var. *dispar*. Type: “figura ad specimen nepalense” Nepal: Herb. Trin. 678.1 (LE, microfiche IDC BT-1671-B5).

Panicum dispar (Trin.) Steud., Syn. Pl. Glumac. 1: 96. 1854

Isachne dispar Trin. var. *villosa* C.E.C. Fisch., Fl. Madras 3(10): 1797. 1934. Type: India: High Wavy Mountains; *Blatter and Hallberg s.n.*

Isachne lutaria Santos, J. Wash. Acad. Sci. 33(5): 140, f. 3. 1943. Type: India: Travancore, Trivandrum, at the edge of a paddy field; January 8, 1934; *E.W. Erlanson 5190* (MICH).

Panicum nodibarbatum Hochst. ex Steud., Syn. Pl. Glumac. 1: 95. 1854. Type: India: Nilgiri Mountains; *R.F. Hohenacker 1275*

Isachne nodibarbata (Hochst. ex Steud.) Henrard, Blumea 3(3): 464. 1940

Panicum violaceum Klein, Linnaea 9: 307. 1834. Type: “Habitat in agris oryzaceis Indiae orientalis (Klein).”

Distribution. Andhra Pradesh, Assam, Bihar, Chhattisgarh, Dadra and Nagar Haveli, Daman and Diu, Goa, Gujarat, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Odisha, Rajasthan, Sikkim, Tamil Nadu, Tripura, Uttar Pradesh, West Bengal [Bangladesh, Bhutan, China, Myanmar, Nepal, Sri Lanka].

Habit. Annual or perennial.

Remarks. Taxonomic editor Teisher notes that *Isachne dispar* vars. *dispar* and *villosa* are treated as synonymys of *I. globosa* by Clayton et al (2006 onwards), whereas Iskandar and Veldkamp (2004) claim *Isachne dispar* is a synonym of *Isachne pulchella* Roth based on the type description. However, Prakash and Jain (1984) note that “*Isachne dispar* Trin.” in Indian Floras was misidentified throughout, and “the specimens which were assigned to *I. dispar* in Indian Herbaria and Floras actually belong either to *I. globosa* or to *I. miliacea*”.

1474. *Isachne gracilis* C.E. Hubb., Bull. Misc. Inform. Kew 1927: 77. 1927

Type. India: Mysore, Baba, Budan Hills, Santavera, alt. 4000 ft., in deep shade on rocks; *Meebold* 10781.

Distribution. Karnataka, Kerala, Madhya Pradesh, Maharashtra.

Habit. Annual.

Remarks. All records from India fide Prakash and Jain (1984).

1475. *Isachne henryi* S. R. Sriniv. & Sreek., J. Bombay Nat. Hist. Soc. 84: 647. f. 1 (A–H). 1988

Type. India: Kerala, Wynad District, Poothumoola, Hiladale R.F.; 2400 ft.; November 13, 1981; *S.R. Srinivasan* 72358 (CAL).

Distribution. Kerala.

Habit. Annual.

1476. *Isachne himalaica* Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 23. 1896

Syntypes. India: Kumaon; *R. Strachey* & *J.E. Winterbottom* s.n. Nepal; *Wallich* (*Numer. List [Wallich]* no. 8656 D, E. Pakistan: Peshawur; *Aitchison* s.n. India: Rajaori; *Jacquemont* s.n.

Distribution. Assam, Himachal Pradesh, Jammu and Kashmir, Meghalaya, Nagaland, Punjab, Uttar Pradesh, Uttarakhand [Afghanistan, Nepal, Pakistan].

Habit. Perennial.

1477. *Isachne jayachandranii* Gopalan & V. Chandras., Kew Bull. 55(4): 1005. 2000

Type. India: Kerala, Thiruvananthapuram District, southern Western Ghats, western slopes of Agasthiyamalai, c. 4500 ft.; December 6, 1973; *J. Joseph* 44628 (CAL).

Distribution. Kerala.

Habit. Annual.

1478. *Isachne kannurensis* Sunil, Ratheesh, Sujana & Sreek., Int. J. Advanced Res. 2(12): 149. 2014 (as '*kannurensis*')

Type. India: Kerala, Kannur District, Kanai Kanam, 200 m, 24 September 2012, *Sunil, Ratheesh Narayanan & Nandakumar 4258* (holotype CAL, Isotypes MH, MSSH).

Distribution. Kerala.

Habit. Annual.

1479. *Isachne kinabaluensis* Merr., J. Straits Branch Roy. Asiat. Soc. 76: 77. 1917

Isachne javana sensu Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 24. 1896, non Nees ex Steud., 1854

Type. British North Borneo: Mount Kinabalu, Paka Cave to Lobang, alt. 4600- 9200 ft.; November 15, 1916; *Clemens 10704*.

Distribution. Meghalaya [Myanmar].

Habit. Perennial.

1480. *Isachne kunthiana* (Wight & Arn. ex Steud.) Nees ex Miq., Fl. Ned. Ind. 3(3): 460. 1857 var. *kunthiana*

Panicum kunthianum Wight & Arn. ex Steud., Syn. Pl. Glumac. 1: 96. 1854. Type: Indonesia: Java; *Zollinger Herb. no.271*

Panicum cuspidigluma Steud., Syn. Pl. Glumac. 1: 96. 1854. Type: Sri Lanka; Arnott Herb. no. 2045 as *Isachne neesiana*

Panicum neesianum Wight & Arn. ex Steud., Syn. Pl. Glumac. 1: 74. 1853. Type: Sri Lanka; *Lindley s.n.*

Panicum metzii Hochst. ex Steud., Syn. Pl. Glumac. 1: 95. 1854. Type: India: Nilgiri Mountains; *R.F. Hohenacker 1276*

Isachne metzii (Hochst. ex Steud.) Henrard, Blumea 3(3): 467. 1940

Isachne elatior Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 22. 1896. Syntypes: Sri Lanka; *Gardner s.n.* (K, PDA). Sri Lanka: Nuwara Eliya; *Thwaites Ceylon Plant 314* (K).

Isachne kunthiana (Wight & Arn. ex Steud.) Miq. var. *elatior* (Hook. f.) Alston in Tri-men, Handb. Fl. Ceylon 6: 316. 1931

Isachne kunthiana (Wight & Arn. ex Steud.) Miq. var. *latifolia* Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 22. 1896. Syntypes: India: Tamil Nadu, Nilghiri Hills, alt. 6000 ft.; *Lawson s.n.* India: Anamallay Hills; *Beddome s.n.*

Distribution. Kerala, Karnataka, Tamil Nadu [Sri Lanka].

Habit. Perennial.

Remarks. Taxonomic editor Teisher notes that “Prakash & Jain (1984) lump *I. kunthiana* var. *latifolia* with *I. kunthiana* on the grounds that the species is highly variable in size and shape, and the varieties were based on quantitative characters that blend together in the study of a larger number of specimens. In the original description, Hooker (1896) describes *I. kunthiana* var. *latifolia* as “almost intermediate between *I. kunthiana* and *I. elatior*”. Since the latter is treated as a synonym under *I. kunthiana*, I would be inclined to agree that var. *latifolia* should also be lumped (this is also the position taken by the World Grass Species Synonymy database, Clayton et al. 2002).”

1481. *Isachne lisboae* Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 22. 1896

Type. India: the Concan, Mahableshwar; *Lisboa s.n.*

Distribution. Karnataka, Maharashtra.

Habit. Annual.

1482. *Isachne manilaliana* Sunil, K.M.P. Kumar & V.P. Thomas in Webbia 72(2): 161. 2017

Type. India: Kerala: Palakkad district, Muthikulam, Elivalmala, 2000 m, 11 November 2016, *Sunil & K. M. Prabhukumar 4574* (holotype CMPR, Isotypes MH, SNMH, CATH).

Distribution. Kerala.

Habit. Annual.

1483. *Isachne meeboldii* C.E.C. Fisch., Bull. Misc. Inform. Kew 1932: 323. 1932

Type. India: Mysore, Shimoga, alt. 2000–3000 ft.; October; *A. Meebold 10747*.

Distribution. Karnataka.

Habit. Perennial.

1484. *Isachne minutula* (Gaudich.) Kunth, Révis. Gram. 2: t. 117. 1831

Panicum minutulum Gaudich. in Freyc., Voy. Uranie: 410. 1829. Type: Mariana Islands. Lectotype: *Gaudichaud-Beaupré s.n.* (P [P01934348]). LT designated by Veldkamp in Turner *et al.*, Gard. Bull. Sing. 71(1): 27. 2019.

Isachne geniculata Griff., Not. Pl. Asiat. 3: 41. 1851. Type: "Bengal Prope Osunpoor; September 27, 1835"

Isachne stigmatisa Griff., Not. Pl. Asiat. 3: 42. t. 147. t. 2. 1851. Type: "In humidis super inundatis, ad ripas flum. Boorea Barak Paulo infra Luckipoor; October 3, 1835." India; October 3, 1835; *Griffith s.n.* (K-245425).

Distribution. Andaman and Nicobar Islands, Andhra Pradesh, Assam, Bihar, Goa, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Meghalaya, Odisha, Rajasthan, Sikkim, Tamil Nadu, West Bengal [China, Nepal, Sri Lanka].

Habit. Perennial.

Remarks. Iskandar and Veldkamp (2004) mention that this taxon has been erroneously referred to in the literature as *Isachne miliacea* Roth or *Isachne pulchella* Roth, but claim the type specimen of *I. miliacea* belongs in *Isachne globosa*. This unfortunate confusion renders interpretations of historic references in the literature to this taxon difficult.

1485. *Isachne mysorensis* Sundararagh., Indian Forester 97(6): 304. t. 1. f. 1–9. 1971

Type. India: Karnataka, Shimoga District, Kundadagudda near Agumbe; August 19, 1963; *Sundararaghavan 90008A* (BSI).

Distribution. Karnataka.

Habit. Annual.

1486. *Isachne oreades* (Domin) Bor, Grasses Burma, Ceylon, India & Pakistan 582. 1960

Panicum oreades Domin, Biblioth. Bot. 20(Heft. 85): 297. 1915, nom. nov. for *P. aequiglume* Hook. f.

Panicum aequiglume Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 44. 1896, non Hack. & Arechav. 1894. Type: India: Tamil Nadu, Nilghiri Hills, Goodadoor Ghats, alt. 5000 ft.; *Lawson s.n.*

Distribution. Tamil Nadu.

Habit. Perennial.

1487. *Isachne pulchella* Roth, Syst. Veg., ed. 15 bis [Roemer & Schultes] 2: 476. 1817

Type. India; *B. Heyne s.n.* (B).

Distribution. Andaman and Nicobar Islands, Andhra Pradesh, Assam, Bihar, Kerala, Madhya Pradesh, Maharashtra, Manipur, Nagaland, Odisha, Tamil Nadu, Uttar Pradesh, West Bengal [Bangladesh, China, Myanmar, Nepal].

Habit. Annual.

Remarks. Taxonomic editor Teisher notes that Iskandar and Veldkamp (2004) include *I. dispar* in the synonymy of *I. pulchella*. See comments under *I. dispar*.

1488. *Isachne scabrosa* Hook. f., Fl. Brit. India (J.D. Hooker). 7(21): 23. 1896

Type. India: Khasia Hills, alt. 4500–5000 ft.; *C.B. Clarke s.n.*

Distribution. Assam, Meghalaya [China, Nepal].

Habit. Perennial.

1489. *Isachne setosa* C.E.C. Fisch., Bull. Misc. Inform. Kew 1932: 247. 1932

Type. India: Cochin, Kavalai, alt. 3000–4000 ft.; *A. Meebold 12125* (BRLU) “Breslau Herbarium”).

Distribution. Karnataka, Kerala, Tamil Nadu.

Habit. Annual.

Remarks. Records from India fide Bor (1960), Prakash and Jain (1984), and Iskandar and Veldkamp (2004).

1490. *Isachne sikkimensis* Bor, Kew Bull. 1949: 115. 1949

Type. India: Sikkim, Karponang, 9000 ft.; August 5, 1945; *Bor’s collector s.n.* (K).

Distribution. Sikkim, West Bengal, Uttar Pradesh [Bhutan, China, Nepal].

Habit. Annual.

Remarks. Records from Sikkim and West Bengal fide Prakash and Jain (1984).

1491. *Isachne swaminathanii* Ved Prakash & S.K. Jain, Proc. Indian Acad. Sci. Pl. Sci. 92(1): 19. f. 10. 1983

Type. India: Maharashtra, Satara District, Mahabaleshwar, 4500 ft.; October 9, 1979; *Ved Prakash 337A* (CAL).

Distribution. Maharashtra.

Habit. Perennial.

1492. *Isachne sylvestris* Ridley, J. Straits Branch Roy. Asiat. Soc. 44: 206. 1905

Type. Indonesia: Malay Peninsula: Telok Sera; March 17, 1896; *Ridley* 7265 (K).

Distribution. North East India; information on specific states lacking. [Bangladesh, China].

Habit. Perennial.

1493. *Isachne veldkampii* K. G. Bhat & Nagendran, Curr. Sci. 52(6): 258. f. 1. 1983

Type. India: Karnataka State, South Kanara District, Manipal, alt. 500 ft.; October 29, 1977; *K. G. Bhat* 468A (CAL).

Distribution. Karnataka.

Habit. Annual.

1494. *Isachne walkeri* (Steud.) Wight & Arn., Enum. Pl. Zeyl. (Thwaites). 361. 1864

Panicum walkeri Steud., Syn. Pl. Glumac. 1: 97. 1854. Type: India Orientalis, Sri Lanka; *R. F. Hohenacker* 1280

Distribution. Kerala, Tamil Nadu [Sri Lanka].

Habit. Perennial.

***Limnopoia* C.E. Hubb., Hooker's Icon. Pl. 35: sub t. 3432. 1943**

Type. *Limnopoia meeboldii* (C.E.C. Fisch.) C.E. Hubb. (*Coelachne meeboldii* C.E.C. Fisch.).

1495. *Limnopoia meeboldii* (C.E.C. Fisch.) C.E. Hubb., Hooker's Icon. Pl. 35: t. 3432. 1943

Coelachne meeboldii C.E.C. Fisch., Bull. Misc. Inform. Kew 1934: 169. 1934. Type: India: Cochin state, Chalakudi; November; *A. Meebold* 12520 (K).

Distribution. Karnataka, Kerala.

Habit. Annual.

***Sphaerocaryum* Nees ex Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 246. 1896**

Type. *Sphaerocaryum elegans* (Arn. ex Steud.) Nees ex Hook. f. (*Graya elegans* Arn. ex Steud., *Isachne pulchella* Roth; *Sphaerocaryum pulchellum* (Roth) Merr.).

1496. *Sphaerocaryum malaccense* (Trin.) Pilger, Repert. Spec. Nov. Regni Veg. 45: 2. 1938, in obs.

Panicum malaccense Trin., Gram. Panic. [Trinius] 204. 1826. Type: “V. sp. malacc. (Stephan, qui a beato Willdenovio sub nomine Agrostis malaccensis acceperat.” India; *Willdenow s.n.* as *Agrostis malaccensis* (LE-TRIN-0806.01 (ex hrbr. Willd. 1737 & fig.)) fragment & drawing.

Sphaerocaryum elegans Nees ex Steud., Nomencl. Bot., ed. 2 (Steudel) 2: 620. 1841, nom. nud.

Distribution. Assam, Meghalaya, Nagaland [Bangladesh, China, Myanmar, Sri Lanka].
Habit. Annual.

***Zenkeria* Trin., Linnaea 11: 150. 1837**

Type. *Zenkeria elegans* Trin.

1497. *Zenkeria elegans* Trin., Linnaea 11: 150. t. 3. 1837

Amphidonax tenella Wight. & Arn. ex Steud., Syn. Pl. Glumac. 1: 197. 1854. Type: “Peninsula Ind. Or.”

Amphidonax heynei Nees in Wight., Cat. 1747. 1834, nom. nud.

Type. “Habitat in Indiae orientalis montibus Nilagiri dictis.”

Distribution. Kerala, Tamil Nadu [Myanmar, Sri Lanka].

Habit. Perennial.

1498. *Zenkeria jainii* N.C. Nair, Sreek. & V.J. Nair, J. Bombay Nat. Hist. Soc. 78: 354. 1981

Type. India: Kerala, Idukki District, Eravikulam Sanctuary, alt. 6400 ft.; August 20, 1980; *P.V. Sreekumar 68419* (CAL).

Distribution. Kerala, Tamil Nadu.

Habit. Perennial.

1499. *Zenkeria sebastinei* A.N. Henry & Chandrab., Bull. Bot. Surv. India 15: 142. 1976 (“1973”)

Type. Tamil Nadu, Tirunelveli District, Agastyamalai; August 26, 1963; *Henry 17325* (CAL).

Distribution. Kerala, Tamil Nadu.

Habit. Perennial.

1500. *Zenkeria stapfii* Henrard, Repert. Spec. Nov. Regni Veg. 17: 396. 1921

Type. India Orientalis: Madras Province, Nilgiri Mountains; *Perrotet 1336*.

Distribution. Karnataka, Tamil Nadu [Sri Lanka].

Habit. Perennial.

Subfamily Arundinoideae Kunth ex Beilschm., 1833

Plants perennial, from several meters tall and reed-like to only a few cm in height. Spikelets laterally compressed.

Arundinoideae has historically been a subfamily to accommodate misfit genera (Clayton and Renvoize 1986; Watson and Dallwitz 1992 onwards), but morphological and molecular phylogenetic analyses showed that the traditionally circumscribed subfamily was polyphyletic (Barker et al. 1995; Clark et al. 1995; Kellogg and Campbell 1987). Over the last several decades the subfamily has been reduced to a monophyletic core of genera. Surprisingly, despite the sharp reduction in genera in the subfamily, it still has no obvious morphological synapomorphy or even any general facies to help with recognition. The current circumscription of the subfamily follows Teisher et al. (2017) and Hardion et al. (2017).

Taxonomic editor: Jordan K. Teisher, Drexel University, Philadelphia

Arundo L., Sp. Pl. 1: 81. 1753

Lectotype. *Arundo donax* L. LT designated by Britton, Fl. Bermuda 29. 1918; affirmed by Hitchcock, Bull. U.S.D.A. 772: 60. 1920.

1501. *Arundo donax* L., Sp. Pl. 1: 81. 1753

Cynodon donax (L.) Raspail, Ann. Sci. Nat. (Paris) 5: 302. 1825

Scolochloa donax (L.) Gaudin, Fl. Helv. 1: 202. 1828

Arundo bifaria Retz., *Observ. Bot.* (Retzius) 4: 21. 1786–1787. Type: “Habitat ad margines stagnorum et fossarum in India Orientali. *Cel. Koenig* dedit.”

Donax arundinaceus P. Beauv., *Ess. Agrostogr.* 152, 161. 1812

Scolochloa arundinacea (P. Beauv.) Mert. & Koch ex Roehl., *Deutschl. Fl.*, ed. 3, 1(2) : 530. 1823, nom. superfl. illeg.

Arundo glauca sensu Bubani, *Fl. Pyren.* (Bubani) 4: 303. 1901, non Bieb., 1808

Arundo latifolia Salisb., *Prodr. Stirp. Chap. Allerton* 24. 1796, nom. superfl. & illeg.

Arundo sativa Lam., *Fl. Franc.* (Lamarck) 3: 616. 1779, nom. superfl. & illeg. for *Arundo donax*

Donax donax (L.) Asch. & Graebn., *Fl. Nordostdeut. Flachl.* 101. 1898, nom. invalid, tautonym

Type. “Habitat in Hispania, Galloprovincia.” Lectotype: *Herb. A. van Royen*, sheet no. 912.356-93 (L). LT designated by Renvoize in Jarvis et al. (ed.), *Regnum Veg.* 127: 21. 1993.

Distribution. Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Delhi, Goa, Gujarat, Himachal Pradesh, Jammu and Kashmir, Karnataka, Kerala, Maharashtra, Madhya Pradesh, Manipur, Meghalaya, Nagaland, Odisha, Punjab, Rajasthan, Tamil Nadu, Tripura, Uttar Pradesh, West Bengal [Afghanistan, Bhutan, China, Myanmar, Nepal, Pakistan].

Habit. Tall perennial.

***Danthonidium* C.E. Hubb., *Hooker’s Icon. Pl.* 34: sub t. 3331. 1937**

Type. *Danthonidium gammiei* (Bhide) C.E. Hubb. (*Danthonia gammiei* Bhide).

1502. *Danthonidium gammiei* (Bhide) C.E. Hubb., *Hooker’s Icon. Pl.* 34: t. 3331. 1937

Danthonia gammiei Bhide, *J. Proc. Asiat. Soc. Bengal* (n.s.) 7(8): 513, 51. t. 6. 1912 (“1911”). Type: India: Bombay, Castle rock; October, 1902; *G.A. Gammie s.n.*

Type. India: Bombay Presidency, Castle Rock; October, 1902; *Gammie in Herb. Econ. Bot. Bombay* 15636 (K).

Distribution. Karnataka, Kerala, Maharashtra.

Habit. Annual.

***Elytrophorus* P. Beauv., *Essai Agrostor.* 67. 1812**

Type. *Elytrophorus articulatus* P. Beauv.

1503. *Elytrophorus spicatus* (Willd.) A. Camus, Fl. Indo-Chine [P.H. Lecomte et al.] 7: 547. 1923

Dactylis spicata Willd., Ges. Naturf. Ferunde Berlin Neue Schriften 3: 416. 1801.

Type: "Wachst an der malabarischen Kuste bei Tangore auf Reifsackern und wird von den Tamulen Wajel tenei genannt."

Sesleria spicata (Willd.) Spreng., Pl. Min. Cogn. Pug. 2: 21. 1815

Distribution. Andhra Pradesh, Assam, Bihar, Chhattisgarh, Himachal Pradesh, Gujarat, Jharkhand, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Meghalaya, Nagaland, Odisha, Rajasthan, Sikkim, Tamil Nadu, Uttar Pradesh, West Bengal [Bhutan, China, Myanmar, Nepal, Sri Lanka].

Habit. Annual.

***Phragmites* Adans., Fam. Pl. (Adanson) 2: 34, 559. 1763**

Type. *Phragmites communis* Trin. (*Arundo phragmites* L.).

1504. *Phragmites australis* (Cav.) Trin. ex Steud., Nomencl. Bot., ed. 2 (Steudel) 1: 143. 1840

Arundo australis Cav., Anales Hist. Nat. 1: 100. 1799. Type: "Se cria en el agua y a' la orilla del rio, que esta como media legua antes de llegar a la Bahia Botanica viniendo de Jackson alli la cogio en abril, *Don Luis Née*."

Phragmites communis Trin., Fund. Agrost. (Trinius) 134. 1820

Arundo phragmites L., Sp. Pl. 1: 81. 1753. Type: "Habitat in Europae lacubus fluviis." Lectotype: *Herb. Linn. No. 97.6* (LINN). LT designated by Clayton in Milne-Redhead and Polhill (ed.), Fl. Trop. E. Africa, Gramineae 1: 118. 1970.

Phragmites australis (Cav.) Trin. ex Steud. var. *stenophylla* (Boiss.) S.K. Jain & Doli Das, Indian Forester 99(8): 575. 1973

Phragmites communis Trin. var. *stenophylla* Boiss., Fl. Orient. (Boissier) 5: 563. 1884. Syntypes: in arenosis saepius maritimis vel salsas; *Heldr. s.n.* Anatolia ad Smyrnam; *Ky s.n.* Syria prope Tripoli; *Bl. s.n.* Egypt: Oasis Magna; *Scheinfurth s.n.* Assyria prope Mossul; *Ky s.n.*, Persia borealis in monte Elbrus; *Ky s.n.* Persia borealis circa Tehran; *Haussk. s.n.*

Distribution. Jammu and Kashmir, Rajasthan [China, Pakistan].

Habit. Perennial.

1505. *Phragmites karka* (Retz.) Trin. ex Steud., Nomencl. Bot., ed. 2 (Steudel) 2: 324. 1841 var. *karka*

Arundo karka Retz., Observ. Bot. (Retzius) 4: 21. 1786–1787. Type: “Dedit cl. Koenig.” India?; *Koenig s.n.* (LD).

Trichoon karka (Retz.) Roth, Arch. Bot. [Leipzig] 1(3): 37. 1798

Oxyanthe japonica (Steud.) Steud., Syn. Pl. Glumac. 1: 197. 1854. Type: Japon; *Thunburg s.n.*

Phragmites nepalensis Nees, Syn. Pl. Glumac. (Steudel) 1: 196. 1854. Type: Nepal; *Royle 78, 79, 90*

Arundo roxburghii Kunth, Révis. Gramin. 1: 79. 1829. Type: India Orientalis

Phragmites roxburghii (Kunth) Steud., Nomencl. Bot., ed. 2 (Steudel) 2: 324. 1841

Sericura japonica Steud., Flora 29: 20. 1846. Type: Not given

Phragmites vallatorius Veldkamp, Blumea 37(1): 233. 1992, nom. superfl. & illegit.

Arundo vallatoria Pluk. ex L., Herb. Amb. 15. 1754, nom. invalid.

Distribution. Andhra Pradesh, Arunachal Pradesh, Assam, Bihar, Chhattisgarh, Goa, Gujarat, Himachal Pradesh, Jammu and Kashmir, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Manipur, Nagaland, Odisha, Punjab, Rajasthan, Sikkim, Tamil Nadu, Tripura, Uttar Pradesh, West Bengal [China, Myanmar, Nepal, Pakistan, Sri Lanka].

Habit. Perennial.

1506. *Phragmites karka* (Retz.) Trin. ex Steud. var. *cincta* Hook. f., Fl. Brit. India (J.D. Hooker). 7(22): 305. 1896

Syntypes. India: Near Calcutta Salt Lakes; *Kurz s.n.* Mutlah; *Clarke 24714*.

Distribution. Andhra Pradesh, Kerala, West Bengal.

Habit. Perennial.

Acknowledgements

This project would not have been possible without the help of a highly skilled set of taxonomic editors. While each of them is listed with the section that they edited, we also acknowledge them here: Bambusoideae: Lynn G. Clark, Iowa State University. Oryzoideae: G. Anthony Verboom, University of Cape Town. Pooideae: Robert J. Soreng and Paul M. Peterson, Smithsonian Institution; *Agrostis*, *Calamagrostis*: Beata Paszko, Polish Academy of Sciences; *Poa*, Marina V. Olonova, Tomsk State University (Russia). Panicoideae: Fernando Zuloaga, Instituto de Botánica Darwinion; Paniceae: P. (Parigi) Venkateswara Prasanna, Botanical Survey of India, Alok R. Chorghe, National Museum of Natural History (New Delhi). Arundinoideae, Micrairoideae: Jordan Teisher, Drexel University. Chloridoideae: Paul M. Peterson, Smithsonian Institu-

tion; *Eragrostis*, Amanda Ingram, Wabash College, P. (Parigi) Venkateswara Prasanna, Botanical Survey of India, and Alok R. Chorghe, National Museum of Natural History (New Delhi); *Tripogon*, Alok R. Chorghe.

We thank Dr. Werner Greuter (B) for helpful discussion of nomenclatural problems. We also thank our editor at PhytoKeys, Maria Vorontsova, who has been a huge help in guiding this through to publication, and two anonymous reviewers who provided valuable detailed comments.

The early part of the work in generating the data was funded by Department of Biotechnology, Govt. of India, New Delhi. The final compilation and publication were supported by the Sehgal Foundation, and in part by the Chris Davidson Fund and a grant from the Office of the Principal Science Advisor to the Prime Minister, Government of India, for developing India's National Mission on Biodiversity and Human Well-being. Work in the Kellogg lab is supported by the US National Science Foundation.

References

- Alexeev EB (1988) Rod *Catabrosella* (Tzvel.) Tzvel. (The genus *Catabrosella* (Tzvel.) Tzvel.) Byull Mosk Obshch Ispyt Prior, Biol 93: 95–109.
- Avdulov NP (1931) Kario-sistematicheskoye issledovaniye semeystva zlakov (Karyosystematic studies in the grass family). Trudy Prikl Bot Prilozheniye (Bull Appl Bot Genet P1- Breed, Leningrad) 44: 1–428.
- Bamboo Phylogeny Group (2012) An updated tribal and subtribal classification of the bamboos (Poaceae: Bambusoideae). Journal of the American Bamboo Society 24: 1–10.
- Barberá P, Quintanar Sánchez A, Peterson PM, Soreng RJ, Romaschenko K, Aedo C (2019a) New combinations, new names, typifications, and a new section, sect. *Hispanica*, in *Koeleria* (Poaceae, Poaceae). Phytoneuron 2019–46: 1–13
- Barberá P, Romero Zarco C, Aedo C (2017a) Taxonomic revision of *Trisetum* section *Acrospelion* (Poaceae: Pooideae: Aveninae) from Eurasia. Systematic Botany 42(4): 754–781. <https://doi.org/10.1600/036364417X696375>
- Barberá P, Romero Zarco C, Aedo C (2017b) Taxonomic revision of *Trisetum* section *Sibirica* (Poaceae: Pooideae: Aveninae). Systematic Botany 42(4): 782–806. <https://doi.org/10.1600/036364417X696564>
- Barberá P, Romero Zarco C, Aedo C (2018) Taxonomic revision of *Trisetum* sect. *Trisetum* (Poaceae: Pooideae: Aveninae) from Eurasia and North Africa. Annals of the Missouri Botanical Garden 103(3): 350–392. <https://doi.org/10.3417/2018067>
- Barberá P, Soreng RJ, Peterson PM, Romaschenko K, Quintanar Sánchez A, Aedo C (2019b) Molecular phylogenetic analysis resolves *Trisetum* (Poaceae: Pooideae: Koeleriinae) polyphyletic: Evidence for a new genus, *Sibirotrisetum* and resurrection of *Acrospelion*. Journal of Systematics and Evolution 1–10. <https://doi.org/10.1111/jse.12523>
- Barker NP, Linder HP, Harley EH (1995) Polyphyly of Arundinoideae (Poaceae): evidence from *rbcL* sequence data. Systematic Botany 20: 423–435. <https://doi.org/10.2307/2419802>

- Barkworth ME (2007) Triticeae. In: Barkworth ME, Capels KM, Long S, Anderton LK, Piep MB (Eds) *Flora of North America north of Mexico Vol 24 Magnoliophyta: Commelinidae (in part): Poaceae, part 1*. Oxford University Press, New York, 238–240.
- Barkworth ME, Cutler RD, Rollo JS, Jacobs SWL, Rashid A (2009) Morphological identification of genomic genera in the Triticeae. *Breeding Science* 59: 561–570. <https://doi.org/10.1270/jsbbs.59.561>
- Baum BR (1977) Oats: wild and cultivated; a monograph of the genus *Avena* L. (Poaceae). Biosystematics Research Institute Monograph, Ottawa, Ontario, Canada 14: 1–463.
- Bennetzen JL, Kellogg EA (1997) Do plants have a one-way ticket to genomic obesity? *Plant Cell* 9: 1509–1514. <https://doi.org/10.1105/tpc.9.9.1509>
- Bianconi ME, Hackel J, Vorontsova MS, Alberti A, Arthan W, Burke SV, Duvall MR, Kellogg EA, Lavergne S, McKain MR, Meunier A, Osborne CP, Traiperm P, Christin PA, Besnard G (2019) Continued adaptation of C₄ photosynthesis after an initial burst of changes in the Andropogoneae grasses. *Systematic Biology* 69(3): 445–461. <https://doi.org/10.1093/sysbio/syz066>
- Bor N (1960) Grasses of Burma, Ceylon, and India. Pergamon Press, New York. <https://doi.org/10.1097/00010694-196111000-00009>
- Bor NL (1952) The genus *Poa* Linn. in India. *Bombay Natural History Society Journal* 50: 820.
- Bor NL (1970) *Flora Iranica: Flora des Iranischen Hochlandes und der Umrahmenden Gebirge : Persien, Afghanistan, Teile von West-Pakistan, Nord-Iraq, Azerbaidzhán, Turkmenistan*. 70. Gramineae. Akdemische Druck-u. Verlagsanstalt, Graz, Austria.
- Brown R (1810) *Prodromus florae Novae Hollandiae*. J. Johnson & Co., London.
- Brown R (1814) *A voyage to Terra Australis*. G. & W. Nicol, London.
- Burke SV, Wysocki WP, Zuloaga FO, Craine JM, Pires JC, Edger PP, Mayfield-Jones D, Clark LG, Kelchner SA, Duvall MR (2016) Evolutionary relationships in Panicoid grasses based on plastome phylogenomics (Panicoideae; Poaceae). *BMC Plant Biology* 16: 140. <https://doi.org/10.1186/s12870-016-0823-3>
- Cafferty S, Jarvis CE, Turland NJ (2000) Typification of Linnaean plant names in the Poaceae (Gramineae). *Taxon* 49: 239–260. <https://doi.org/10.2307/1223839>
- Campbell CS, Kellogg EA (1987) Sister group relationships of the Poaceae. In: Soderstrom TR, Hilu KW, Campbell CS, Barkworth ME (Eds) *Grass systematics and evolution*. Smithsonian Institution, Washington, DC, 217–224.
- Catalán P, Müller J, Hasterok R, Jenkins G, Mur LAJ, Langdon T, Betekhtin A, Siwinska D, Pimentel M, López-Alvarez D (2012) Evolution and taxonomic split of the model grass *Brachypodium distachyon*. *Annals of Botany* 109: 385–405. <https://doi.org/10.1093/aob/mcr294>
- Cerros Tlatilpa R, Columbus JT, Barker NP (2011) Phylogenetic relationships of *Aristida* and relatives (Poaceae, Aristidoideae) based on noncoding chloroplast (*trnL-F*, *rpl16*) and nuclear (ITS) DNA sequences *American Journal of Botany* 98. <https://doi.org/10.3732/ajb.1100103>
- Chiapella J, Amarilla LD (2012). In: Zuloaga FO, Rúgolo ZE, Anton AM (Eds) *Pooideae Flora argentina : Flora vascular de la República Argentina*. Instituto de Botánica Darwinion, San Isidro.
- Chorge A, Swamy J, Tagore JK, Ramana MV, Prasanna PV (2013) *Ichmanthus pallens* (Poaceae) new record for India from Andaman and Nicobar Islands. *Indian Journal of Forestry* 36: 79–82.

- Clark LG, Zhang W, Wendel JF (1995) A phylogeny of the grass family (Poaceae) based on *ndhF* sequence data. *Systematic Botany* 20: 436–460. <https://doi.org/10.2307/2419803>
- Clayton, W.D., Vorontsova, M.S., Harman, K.T. and Williamson, H. (2006 onwards). Grass-Base - The Online World Grass Flora. <http://www.kew.org/data/grasses-db.html>
- Clayton WD, Vorontsova MS, Harman KT, Williamson H (2002 onwards). World Grass Species: Synonymy. <http://www.kew.org/data/grasses-syn.html>
- Clayton WD, Renvoize SA (1986) Genera graminum: grasses of the world. Her Majesty's Stationery Office, London.
- Cope TA (1982) Poaceae. In: Nasir E, Ali SI (Eds) Flora of Pakistan. Pakistan Agricultural Research Council.
- Cotton JL, Wysocki WP, Clark LG, Kelchner SA, Pires JC, Edger PP, Mayfield-Jones D, Duvall MR (2015) Resolving deep relationships of PACMAD grasses: a phylogenomic approach. *BMC Plant Biol* 15: 178. <https://doi.org/10.1186/s12870-015-0563-9>
- DeLisle DG (1962) Taxonomy and distribution of the genus *Cenchrus*. Iowa State University.
- Devi M, Bhattacharyya D (2013) Flowering occurrences of *Bambusa cacharensis* in Barak Valley, Assam, India since its type collection: a note. *Bamboo Science and Culture* 26: 41–44.
- Dickoré WB (1995) Systematische Revision und chorologische Analyse der Monocotyledoneae des Karakorum (Zentralasian, West-Tibet). *Flora Karakorumensis: I. Angiospermae, Monocotyledoneae.* . *Stapfia* 39: 1–290.
- Doğan M (1999) A concise taxonomic revision of the genus *Alopecurus* L. (Gramineae). *Turkish Journal of Botany* 23: 245–262.
- Dransfield S, Widjaja E (1995) Bamboos. Backhuys, Bogor, Indonesia, 189 pp.
- Estep MC, McKain MR, Vela Diaz D, Zhong J, Hodge JG, Hodgkinson TR, Layton DJ, Malcomber ST, Pasquet R, Kellogg EA (2014) Allopolyploidy, diversification, and the Miocene grassland expansion. *Proceedings of the National Academy of Sciences USA* 111: 15149–15154. <https://doi.org/10.1073/pnas.1404177111>
- Gillespie LJ, Soreng RJ, Bull RD, Jacobs SWL, Refulio-Rodriguez NF (2008) Phylogenetic relationships in subtribe Poinae (Poaceae, Poae) based on nuclear ITS and plastid *trnT-trnL-trnF* sequences. *Botany* 86: 938–967. <https://doi.org/10.1139/B08-076>
- Gillespie LJ, Soreng RJ, Cabi E, Amiri N (2018) Phylogeny and taxonomic synopsis of *Poa* subgenus *Pseudopoa* (including *Eremopoa* and *Lindbergella*) (Poaceae, Poae, Poinae). *PhytoKeys* 111: 69–101. <https://doi.org/10.3897/phytokeys.111.28081>
- Giussani LM, Cota-Sánchez JH, Zuloaga FO, Kellogg EA (2001) A molecular phylogeny of the grass subfamily Panicoideae (Poaceae) shows multiple origins of C₄ photosynthesis. *American Journal of Botany* 88: 1993–2012. <https://doi.org/10.2307/3558427>
- Gould FW (1972) A systematic treatment of *Garnotia* (Gramineae). *Kew Bulletin* 27: 515–562. <https://doi.org/10.2307/4114365>
- Grass Phylogeny Working Group (2001) Phylogeny and subfamilial classification of the Poaceae. *Annals of the Missouri Botanical Garden* 88: 373–457. <https://doi.org/10.2307/3298585>
- Grass Phylogeny Working Group II (2012) New grass phylogeny resolves deep evolutionary relationships and discovers C₄ origins. *New Phytologist* 193: 304–312. <https://doi.org/10.1111/j.1469-8137.2011.03972.x>

- Hardion L, Verlaque R, Haan-Archipoff G, Cahen D, Hoff M, Vila B (2017) Cleaning up the grasses dustbin: systematics of the Arundinoideae subfamily (Poaceae). *Plant Systematics and Evolution* 303: 1331–1339. <https://doi.org/10.1007/s00606-017-1451-6>
- Harlan JR, DeWet JM (1972) A simplified classification of cultivated sorghum. *Crop Science* 12: 172–176. <https://doi.org/10.2135/cropsci1972.0011183X001200020005x>
- Hempel W (2011) Revision und Phylogenie der Arten der Gattung *Melica* L. (Poaceae) in Eurasien und Nordafrika. *Feddes Repertorium* 122: 1–253. <https://doi.org/10.1002/fedr.201100029>
- Hisamoto Y, Kashiwagi H, Kobayashi M (2008) Use of flowering gene FLOWERING LOCUS T (FT) homologs in the phylogenetic analysis of bambusoid and early diverging grasses. *Journal of Plant Research* 121: 451–461. <https://doi.org/10.1007/s10265-008-0181-9>
- Hooker JD (1896) *Flora of British India*. Vol. VII, Gramineae. Reeve & Co., Ltd., England.
- IPNI (2020) International Plant Names Index. Published on the Internet <http://www.ipni.org>, The Royal Botanic Gardens, Kew, Harvard University Herbaria & Libraries and Australian National Botanic Gardens.
- Iskandar EAP, Veldkamp JF (2004) A revision of Malesian *Isachne* sect. *Isachne* (Gramineae, Panicoideae, Isachneae). *Reinwardtia* 12(2): 159–179.
- Jannink TA, Veldkamp JF (2002) Revision of Chionachninae (Gramineae: Andropogoneae). *Blumea* 47: 545–580.
- Judziewicz E, Clark LG (2007) Classification and biogeography of New World grasses: Anomochlooideae, Pharoideae, Ehrhartoideae, and Bambusoideae. *Aliso* 23: 303–314. <https://doi.org/10.5642/aliso.20072301.25>
- Kelchner SA, Bamboo Phylogeny Group (2013) Higher level phylogenetic relationships within the bamboos (Poaceae: Bambusoideae) based on five plastid markers. *Molecular Phylogenetics and Evolution* 67: 404–413. <https://doi.org/10.1016/j.ympev.2013.02.005>
- Kellogg EA (2009) The evolutionary history of Ehrhartoideae, Oryzeae, and *Oryza*. *RICE* 2: 1–14. <https://doi.org/10.1007/s12284-009-9022-2>
- Kellogg EA (2015a) *Brachypodium distachyon* as a genetic model system. *Annual Review of Genetics* 49: 1–20. <https://doi.org/10.1146/annurev-genet-112414-055135>
- Kellogg EA (2015b) Poaceae. In: Kubitzki, K, ed. *Families and Genera of Vascular plants*. Springer. Pp. 1–416.
- Kellogg EA, Aliscioni SS, Morrone O, Pensiero J, Zuloaga FO (2009) A phylogeny of *Setaria* (Poaceae, Panicoideae, Paniceae) and related genera, based on the chloroplast gene *ndhF*. *International Journal of Plant Sciences* 170: 117–131. <https://doi.org/10.1086/593043>
- Kellogg EA, Appels R, Mason-Gamer RJ (1996) When genes tell different stories: the diploid genera of Triticeae (Gramineae). *Systematic Botany* 21: 321–347. <https://doi.org/10.2307/2419662>
- Kellogg EA, Bennetzen JL (2004) The evolution of nuclear genome structure in seed plants. *American Journal of Botany* 91: 1709–1725. <https://doi.org/10.3732/ajb.91.10.1709>
- Kellogg EA, Camara PEAS, Rudall PJ, Ladd P, Malcomber ST, Whipple CJ, Doust AN (2013) Early inflorescence development in the grasses (Poaceae). *Frontiers in Plant Science* 4. <https://doi.org/10.3389/fpls.2013.00250>

- Kellogg EA, Campbell CS (1987) Phylogenetic analyses of the Gramineae. In: Soderstrom TR, Hilu KW, Campbell CS, Barkworth ME (Eds) Grass systematics and evolution. Smithsonian Institution Press, Washington, DC, 310–322.
- Kumari P, Singh P (2014) Bamboos of Meghalaya. Botanical Survey of India, Kolkata, 1–302.
- Leandro TD, Rodrigues TM, Clark LG, Scatena VL (2018) Fusoid cells in the grass family Poaceae (Poales): a developmental study reveals homologies and suggests new insights into their functional role in young leaves. *Annals of Botany* 122: 833–848. <https://doi.org/10.1093/aob/mcy025>
- Linder HP (1987) The evolutionary history of the Poales/Restionales - a hypothesis. *Kew Bull* 42: 297–318. <https://doi.org/10.2307/4109686>
- Linder HP, Baeza M, Barker NP, Galley C, Humphrey AM, Lloyd KM, Orlovich DA, Pirie MD, Simon BK, Walsh N, Verboom GA (2010) A generic classification of the Danthonioideae. *Annals of the Missouri Botanical Garden* 97: 306–364. <https://doi.org/10.3417/2009006>
- Liu L, Zhu G, Tzvelev NN (2006) Puccinellia. In: Wu Z, Raven PH, Hong D (Eds) Flora of China. Science Press, Beijing.
- Lopez-Alvarez D, Lopez-Herranz ML, Betekhtin A, Catalan P (2012) A DNA barcoding method to discriminate between the model plant *Brachypodium distachyon* and its close relatives *B. stacei* and *B. hybridum* (Poaceae). *PLoS One* 7: e51058. <https://doi.org/10.1371/journal.pone.0051058>
- Löve A (1984) Conspectus of the Triticeae. *Feddes Repertorium* 95: 425–521. <https://doi.org/10.1002/fedr.4910950702>
- Lu D, Zhao Y, Han R, Wang L, Qin P (2016) The complete chloroplast genome sequence of the purple feathergrass *Stipa purpurea* (Poales: Poaceae). *Conservation Genetics Resources* volume 8: 101–104. <https://doi.org/10.1007/s12686-016-0519-x>
- Lu S, Chen W, Phillips SM (2006) *Deyeuxia*. In: Wu Z, Raven PH, Hong D (Eds) Flora of China: Poaceae. Science Press, Beijing, 348–359.
- Lu S, Phillips SM (2006) *Polypogon*. In: Wu Z, Raven PH, Hong D (Eds) Flora of China. Science Press, Beijing, 361–363.
- Mathews S, Tsai RC, Kellogg EA (2000) Phylogenetic structure in the grass family (Poaceae): evidence from the nuclear gene phytochrome B. *American Journal of Botany* 87: 96–107. <https://doi.org/10.2307/2656688>
- Metcalfe CR (1960) Anatomy of the monocotyledons. I. Gramineae. Clarendon Press, Oxford.
- Morrone O, Aagesen L, Scatagliini MA, Salariato DL, Denham SS, Chemisquy MA, Sede SM, Giussani LM, Kellogg EA, Zuloaga FO (2012) Phylogeny of the Paniceae (Poaceae: Panicoideae): integrating plastid DNA sequences and morphology into a new classification. *Cladistics* 28: 333–356. <https://doi.org/10.1111/j.1096-0031.2011.00384.x>
- Morrone O, Aliscioni SA, Veldkamp JF, Pensiero J, Zuloaga FO, Kellogg EA (2014) A revision of the Old World species of *Setaria*. *Systematic Botany Monographs* 96: 1–161.
- Naithani HB (1990) Flowering plants of India, Nepal and Bhutan (not recorded in Sir J. D. Hooker's Flora of British India). Surya Publications, Dehradun.
- Nautiyal DC, Gaur RD (2017) *Poa* L. species in Uttarakhand, India and keys for their identification. *Taiwania* 62: 75–92.

- Noltie HJ (2000) Flora of Bhutan: including a record of plants from Sikkim and Darjeeling, volume 3 part 2. The Grasses of Bhutan. Royal Botanic Garden Edinburgh, Edinburgh.
- Ohrnberger D (1999) The bamboos of the world: annotated nomenclature and literature of the species and the higher and lower taxa. Elsevier Science B.V., Amsterdam.
- Paszko B (2012a) *Calamagrostis gamblei* sp. nov. (Poaceae) from the Western Himalayas, NW India. Polish Botanical Journal 57: 327–334.
- Paszko B (2012b) Taxonomic revision of *Calamagrostis filiformis*, *C. tripilifera* and their allies (Poaceae: Agrostidinae). Polish Botanical Journal 57: 335–346.
- Paszko B, Chen WL (2013) *Deyeuxia sorengii* sp. nov. (Poaceae, Agrostidinae) from the Qinghai-Tibetan plateau. Nordic Journal of Botany 31: 555. <https://doi.org/10.1111/j.1756-1051.2012.01791.x>
- Paszko B, Ma HY (2011) Taxonomic revision of the *Calamagrostis epigeios* complex with particular reference to China. Journal of Systematics and Evolution 49: 495–504. <https://doi.org/10.1111/j.1759-6831.2011.00140.x>
- Paszko B, Pendry CA (2013) *Agrostis griffithiana* (Poaceae: Agrostidinae) - typification, a new synonym and an update of the distribution in India. Phytotaxa 140: 26–34. <https://doi.org/10.11646/phytotaxa.140.1.2>
- Paszko B, Soreng RJ (2013) Species delimitation and name application in *Deyeuxia abnormis*, *Agrostis zenkeri*, *A. pleiophylla* and related taxa (Poaceae: Agrostidinae). Phytotaxa 111: 1–26. <https://doi.org/10.11646/phytotaxa.111.1.1>
- Peterson PM, Columbus JT, Pennington SJ (2007) Classification and biogeography of New World grasses: Chloridoideae. Aliso 23: 580–594. <https://doi.org/10.5642/aliso.20072301.43>
- Peterson PM, Romaschenko K, Arrieta YH (2014a) A molecular phylogeny and classification of the Cteniinae, Farragininae, Gouiniinae, Gymnopogoninae, Perotidinae, and Trichoneurinae (Poaceae: Chloridoideae). Taxon 63: 275–286. <https://doi.org/10.12705/632.35>
- Peterson PM, Romaschenko K, Arrieta YH (2015) A molecular phylogeny and classification of the Eleusininae with a new genus, *Micrachne* (Poaceae: Chloridoideae: Cynodonteae). Taxon 64: 445–467. <https://doi.org/10.12705/643.5>
- Peterson PM, Romaschenko K, Arrieta YH (2016) A molecular phylogeny and classification of the Cynodonteae (Poaceae: Chloridoideae) with four new genera: *Orthacanthus*, *Triplasiella*, *Tripogonella*, and *Zaqiqah*; three new subtribes: Dactylocteniiinae, Orininae, and Zaqiqahinae; and a subgeneric classification of *Distichlis*. Taxon 65: 1263–1287. <https://doi.org/10.12705/656.4>
- Peterson PM, Romaschenko K, Arrieta YH, Saarela JM (2014b) A molecular phylogeny and new subgeneric classification of *Sporobolus* (Poaceae: Chloridoideae: Sporobolinae). Taxon 63: 1212–1243. <https://doi.org/10.12705/636.19>
- Peterson PM, Romaschenko K, Barker NP, Linder HP (2011) Centropodieae and *Ellisochloa*, a new tribe and genus in Chloridoideae (Poaceae). Taxon 60: 1113–1122. <https://doi.org/10.1002/tax.604014>
- Peterson PM, Romaschenko K, Herrera Arrieta Y, Saarela JM (2014c) (2332) Proposal to conserve *Sporobolus* against *Spartina*, *Crypsis*, *Ponceletia* and *Heleochloa* (Poaceae: Chloridoideae: Sporobolinae). Taxon 63: 1373–1374. <https://doi.org/10.12705/636.23>

- Peterson PM, Romaschenko K, Johnson G (2010a) A classification of the Chloridoideae (Poaceae) based on multi-gene phylogenetic trees. *Molecular Phylogenetics and Evolution* 55: 580–598. <https://doi.org/10.1016/j.ympev.2010.01.018>
- Peterson PM, Romaschenko K, Johnson G (2010b) A phylogeny and classification of the Muhlenbergiinae (Poaceae: Chloridoideae: Cynodonteae) based on plastid and nuclear DNA sequences. *American Journal of Botany* 97: 1532–1554. <https://doi.org/10.3732/ajb.0900359>
- Peterson PM, Romaschenko K, Snow N, Johnson G (2012) A molecular phylogeny and classification of *Leptochloa* (Poaceae: Chloridoideae: Chlorideae) *sensu lato* and related genera. *Annals of Botany* 109: 1317–1329. <https://doi.org/10.1093/aob/mcs077>
- Peterson PM, Soreng RJ, Phillips SM, Wiersema JH (2018) (2620) Proposal to reject the name *Poa amabilis* (*Eragrostis amabilis*) (Poaceae). *Taxon* 67: 644–645. <https://doi.org/10.12705/673.25>
- Peterson PM, Soreng RJ, Romaschenko K, Barberá P, Quintanar Sánchez A, Aedo C (2019) New combinations and new names in American *Cinnagrostris*, *Peyritschia*, and *Deschampsia*, and three new genera: *Greeneochloa*, *Laegaardia* and *Paramochloa* (Poaceae). *Phytoneuron* 2019–39: 1–23.
- Plant Base EM (2005) Dipartimento di Scienze ambientali e Biodiversità ed Orto botanico, Università degli Studi di Palermo.
- Prakash V, Jain SK (1984) *Poaceae: Tribe Isachneae*. Fascicle 14. Flora of India, Botanical Survey India, Calcutta, 1–42.
- Probatova NS (2003) The genus *Arctopoa* (Griseb.) Probat. (Poaceae): taxonomy, chromosome numbers, biogeography and differentiation. *Komarov Memorial Lectures* 49: 89–130.
- Rajbhandari KR (1991) A revision of the genus *Poa* L. (Gramineae) in the Himalaya. In: Ohba H, Malla SB (Eds) *The Himalayan plants: volume 2*. University Museum, University of Tokyo, Tokyo, 169–263.
- Rajbhandari KR, Edmondson JR (1990) *Poa royleana* (Gramineae), a little-known species from western Himalaya. *Kew Bull* 45: 345–349. <https://doi.org/10.2307/4115693>
- Romaschenko K, Peterson PM, Soreng RJ, Futorna O, Susanna A (2011) Phylogenetics of *Piptatherum* s.l. (Poaceae: Stipeae): evidence for a new genus, *Piptatheropsis*, and resurrection of *Patis*. *Taxon* 60: 1703–1716. <https://doi.org/10.1002/tax.606015>
- Romaschenko K, Peterson PM, Soreng RJ, Garcia-Jacas M, Susanna A (2010) Phylogenetics of Stipeae (Poaceae: Pooideae) based on plastid and nuclear DNA sequences. In: Seberg O, Petersen G, Barfod AS, Davis JI (Eds) *Diversity, phylogeny, and evolution in the monocotyledons*. Aarhus University Press, Aarhus, Denmark.
- Romaschenko K, Peterson PM, Soreng RJ, Garcia-Jacas N, Futorna O, Susanna A (2008) Molecular phylogenetic analysis of the American Stipeae (Poaceae) resolves *Jarava* *sensu lato* polyphyletic: evidence for a new genus, *Pappostipa*. *Journal of the Botanical Research Institute of Texas* 2: 165–192.
- Romaschenko K, Peterson PM, Soreng RJ, Garcia-Jacas N, Futorna O, Susanna A (2012) Systematics and evolution of the needle grasses (Poaceae: Pooideae: Stipeae) based on analysis of multiple chloroplast loci, ITS, and lemma micromorphology. *Taxon* 61: 18–44. <https://doi.org/10.1002/tax.611002>

- Romaschenko, K, Garcia-Jacas N, Peterson PM, Soreng RJ, Vilatersana R, & Susanna A (2014) Miocene–Pliocene speciation, introgression, and migration of *Patis* and *Ptilagrostis* (Poaceae: Stipeae) Molecular Phylogenetics and Evolution 70: 244–259. <https://doi.org/10.1016/j.ympev.2013.09.018>
- Saarela JM, Burke SV, Wysocki WP, Barrett MD, Clark LG, Craine JM, Peterson PM, Soreng RJ, Vorontsova MS, Duvall MR (2018) A 250 plastome phylogeny of the grass family (Poaceae): topological support under different data partitions. PeerJ 6: e4299. <https://doi.org/10.7717/peerj.4299>
- Saarela JM, Liu Q, Peterson PM, Soreng RJ, Paszko B (2010) Phylogenetics of the grass ‘Aveneae-type plastid DNA clade’ (Poaceae: Pooideae, Poaeae) based on plastid and nuclear ribosomal DNA sequence data. In: Seberg O, Petersen G, Barfod AS, Davis JI (Eds) Diversity, phylogeny, and evolution in the monocotyledons. Aarhus University Press, Aarhus, Denmark, 557–587.
- Saarela JM, Wysocki WP, Barrett CF, Soreng RJ, Davis JI, Clark LG, Kelchner SA, Pires JC, Edger PP, Mayfield DR, Duvall MR (2015) Plastid phylogenomics of the cool-season grass subfamily: clarification of relationships among early-diverging tribes. AoB Plants 7. <https://doi.org/10.1093/aobpla/plv046>
- Sánchez-Ken JG, Clark LG (2007) Phylogenetic relationships within the Centothecoideae + Panicoideae clade (Poaceae) based on *ndhF* and *rpl16* intron sequences and structural data. Aliso 23: 487–502. <https://doi.org/10.5642/aliso.20072301.38>
- Sánchez-Ken JG, Clark LG (2010) Phylogeny and a new tribal classification of the Panicoideae s.l. (Poaceae) based on plastid and nuclear sequence data and structural data. American Journal of Botany 97: 1732–1748. <https://doi.org/10.3732/ajb.1000024>
- Schubert M, Gronvold L, Sandve SR, Hvidsten TR, Fjellheim S (2019a) Evolution of cold acclimation and its role in niche transition in the temperate grass subfamily Pooideae. Plant Physiology 180: 404–419. <https://doi.org/10.1104/pp.18.01448>
- Schubert M, Marcussen T, Meseguer AS, Fjellheim S (2019b) The grass subfamily Pooideae: Cretaceous–Palaeocene origin and climate-driven Cenozoic diversification. Global Ecology and Biogeography 28: 1168–1182. <https://doi.org/10.1111/geb.12923>
- Seethalakshmi KK, Kumar MSM (1998) Bamboos of India: a compendium. Kerala Forest Research Institute, Peechi, Kerala, India.
- Snow N, Peterson PM (2012a) Nomenclatural notes on *Dinebra*, *Diplachne*, *Disakisperma* and *Leptochloa* (Poaceae: Chloridoideae). Phytoneuron 2012–71: 1–2.
- Snow N, Peterson PM (2012b) Systematics of *Trigonochloa* (Poaceae, Chloridoideae, Chlorideae). PhytoKeys 13: 25–38. <https://doi.org/10.3897/phytokeys.13.3355>
- Snowden JD (1935) A classification of the cultivated Sorghums. Bulletin of Miscellaneous Information, Royal Botanic Gardens, Kew 5: 221–255. <https://doi.org/10.2307/4107126>
- Soderstrom TR, Ellis RP (1987) The position of bamboo genera and allies in a system of grass classification. In: Soderstrom TR, Hillu KW, Campbell CS, Barkworth ME (Eds) Grass systematics and evolution. Smithsonian Institution Press, Washington, DC, 225–238.
- Soderstrom TR, Ellis RP, Judziewicz EJ (1987) The Phareae and Streptogyneae (Poaceae) of Sri Lanka. Smithsonian Contributions to Botany 65: 1–27. <https://doi.org/10.5479/si.0081024X.65>

- Soenarko S (1977) The genus *Cymbopogon* Sprengel (Gramineae). *Reinwardtia* 9: 225–375.
- Soreng RJ, Peterson PM, Romaschenko K, Davidse G, Teisher JK, Clark LG, Barbera P, Gillespie LJ, Zuloaga FO (2017) A worldwide phylogenetic classification of the Poaceae (Gramineae) II: An update and a comparison of two 2015 classifications. *Journal of Systematics and Evolution* 55: 259–290. <https://doi.org/10.1111/jse.12262>
- Soreng RJ, Peterson PM, Romaschenko K, Davidse G, Zuloaga FO, Judziewicz EJ, Filgueiras TS, Davis JI, Morrone O (2015) A worldwide phylogenetic classification of the Poaceae (Gramineae). *Journal of Systematics and Evolution* 53: 117–137. <https://doi.org/10.1111/jse.12150>
- Stapleton CMA (1994) The bamboos of Nepal and Bhutan Part I: *Bambusa*, *Dendrocalamus*, *Melocanna*, *Cephalostachyum*, *Teinostachyum*, and *Pseudostachyum* (Gramineae: Poaceae, Bambusoideae). *Edinburgh Journal of Botany* 51: 1–32. <https://doi.org/10.1017/S0960428600001682>
- Stapleton CMA, Chonghaile GN, Hodgkinson TR (2004) *Sarocalamus*, a new Sino-Himalayan bamboo genus (Poaceae: Bambusoideae). *Novon* 14(3): 347.
- Stebbins GL (1956) Cytogenetics and evolution of the grass family. *American Journal of Botany* 43: 890–905. <https://doi.org/10.1002/j.1537-2197.1956.tb11182.x>
- Stebbins GL, Snyder LA (1956) Artificial and natural hybrids in the Gramineae, tribe Hordeae. IX. Hybrids between western and eastern North American species. *American Journal of Botany* 43: 305–312. <https://doi.org/10.1002/j.1537-2197.1956.tb10495.x>
- Stebbins Jr GL, Walters MS (1949) Artificial and natural hybrids in the Gramineae, tribe Hordeae. III. Hybrids involving *Elymus condensatus* and *E. triticoides*. *American Journal of Botany* 36: 291–301. <https://doi.org/10.1002/j.1537-2197.1949.tb05263.x>
- Tang L, Zou X, Achoundong G, Potgieter C, Second G, Zhang D, Ge S (2010) Phylogeny and biogeography of the rice tribe (Oryzeae): evidence from combined analysis of 20 chloroplast fragments. *Molecular Phylogenetics and Evolution* 54: 266–277. <https://doi.org/10.1016/j.ympev.2009.08.007>
- Tateoka T (1963) Notes on some grasses. XIII. Relationship between Oryzeae and Ehrharteae, with special reference to leaf anatomy and histology. *Botanical Gazette* 124: 264–270. <https://doi.org/10.1086/336203>
- Teisher JK, McKain MR, Schaal BA, Kellogg EA (2017) Polyphyly of Arundinoideae (Poaceae) and evolution of the twisted geniculate lemma awn. *Annals of Botany* 120: 725–738. <https://doi.org/10.1093/aob/mcx058>
- Teisher JK, McKain MR, Schaal BA, Kellogg EA (2019) Plastome phylogenetics of tribe Eriachneae and evolution of C₄ photosynthesis in subfamily Micrairoideae (Poaceae). *Systematic Botany* 44: 32–40. <https://doi.org/10.1600/036364419X697877>
- Terrell EE (1968) A taxonomic revision of the genus *Lolium*. *Tech. Bull. USDA* 1392: 1–65.
- Tian MS (2006) *Glyceria*. In: Wu ZY, Raven PH, Hong DY (Eds) *Flora of China* Vol 22 (Poaceae). Science Press and Missouri Botanical Garden Press, Beijing and St. Louis.
- Triplett JK, Clark LG, Fisher AE, Wen J (2014) Independent allopolyploidization events preceded speciation in the temperate and tropical woody bamboos. *New Phytologist* 204: 66–73. <https://doi.org/10.1111/nph.12988>
- Triplett JK, Oltrogge K, Clark LG (2010) Phylogenetic relationships within *Arundinaria* (Poaceae: Bambusoideae) in North America. *American Journal of Botany* 97: 471–492. <https://doi.org/10.3732/ajb.0900244>

- Tzvelev NN (1976) *Zlaki SSSR*. 1–788. Nauka Publishers, Leningrad Section, Leningrad.
- Tzvelev NN (1983) *Grasses of the Soviet Union*. Amerind Publishing Co., New Delhi.
- UmaShaanker R, Ganeshiah KN, Srinivasan K, RaoRamanatha V, Hong LT (2004) *Bamboos and rattans of the Western Ghats: population biology, socio-economics and conservation strategies*. Ashoka Trust for Research in Ecology and the Environment; International Plant Genetic Resources Institute, Bangalore, India; Rome, Italy.
- VanBuren R, Bryant D, Edger PP, Tang H, Burgess D, Challabathula D, Spittle K, Hall R, Gu J, Lyons E, Freeling M, Bartels D, Hallers BT, Hastie A, Michael TP, Mockler TC (2015) Single-molecule sequencing of the dessication tolerant grass *Oropetium thomaeum*. *Nature*. <https://doi.org/10.1038/nature15714>
- Van den Borre A, Watson L (1997) On the classification of the Chloridoideae (Poaceae). *Australian Systematic Botany* 10: 491–531. <https://doi.org/10.1071/SB96017>
- van Slageren MW (1994) *Wild wheats: a monograph of Aegilops L. and Amblyopyrum (Jaub.& Spach) Eig.* Wageningen Agricultural University and ICARDA, Wageningen, Netherlands.
- Veldkamp JF (2012) *Koordersiochloa* Merr. (Gramineae), the correct name for *Streblochaete* Hochst. ex Pilg. *Reinwardtia* 13: 299–304.
- Verboom GA, Linder HP, Stock WD (2003) Phylogenetics of the grass genus *Ehrharta*: evidence for radiation in the summer-arid zone of the South African Cape. *Evolution* 57: 1008–1021. <https://doi.org/10.1111/j.0014-3820.2003.tb00312.x>
- Verboom GA, Linder HP, Barker NP (1994) Haustorial synergids: An important character in the systematics of danthonioid grasses (Arundinoideae: Poaceae). *American Journal of Botany* 81: 1601–1610. <https://doi.org/10.1002/j.1537-2197.1994.tb11472.x>
- Verloove F (2012) New combinations in *Cenchrus* (Paniceae, Poaceae) in Europe and the Mediterranean area. *Willdenowia* 42: 77–78. <https://doi.org/10.3372/wi.42.42108>
- Vorontsova MS, Clark LG, Dransfield J, Govaerts RHA, Baker WJ (2016) World checklist of bamboos and rattans. International Network of Bamboo and Rattan, Beijing.
- Watson L, Dallwitz MJ (1992 onwards) *The grass genera of the world: descriptions, illustrations, identification, and information retrieval; including synonyms, morphology, anatomy, physiology, phytochemistry, cytology, classification, pathogens, world and local distribution, and references*. CAB International, Wallingford.
- Welker CAD, McKain MR, Vorontsova MS, Peichoto MC, Kellogg EA (2019) Plastome phylogenomics of sugarcane and relatives confirms the segregation of the genus *Tripidium* (Poaceae - Andropogoneae). *Taxon* 68: 246–267. <https://doi.org/10.1002/tax.12030>
- Wölk A, Röser M (2013) The new genus *Trisetopsis* and new combinations in oat-like grasses. *Schlechtendalia* 25: 57–61.
- Wölk A, Röser M (2014) Polyploid evolution, intercontinental biogeographical relationships and morphology of the recently described African oat genus *Trisetopsis* (Poaceae) *Taxon* 63(4): 773–788. <https://doi.org/10.12705/634.1>
- Wölk A, Röser M (2017) Hybridization and long-distance colonization in oat-like grasses of South and East Asia, including an amended circumscription of *Helictotrichon* and the description of the new genus *Tzveleviochloa* (Poaceae). *Taxon* 66(1): 20–43. <https://doi.org/10.12705/661.2>
- Wölk A, Winterfeld G, Röser M (2015) Genome evolution in a Mediterranean species complex: phylogeny and cytogenetics of *Helictotrichon* (Poaceae) allopolyploids based on nucle-

- ar DNA sequences (rDNA, topoisomerase gene) and FISH. Systematics and Biodiversity 13: 326–345. <https://doi.org/10.1080/14772000.2015.1023867>
- Wong KM, Low YW (2011) Hybrid zone characteristics of the intergeneric hybrid bamboo \times *Gigantocalamus malpenensis* (Poaceae: Bambusoideae) in Peninsular Malaysia. Gardens' Bulletin Singapore 63: 375–383.
- Wu ZY, Raven PH, Hong DY ((2006) Flora of China. Vol. 22 (Poaceae). Science Press and Missouri Botanical Garden Press, Beijing and St. Louis.
- Yobi A, Schlauch KA, Tillett RL, Yim WC, Espinoza C, Wone BW, Cushman JC, Oliver MJ (2017) *Sporobolus stapfianus*: Insights into desiccation tolerance in the resurrection grasses from linking transcriptomics to metabolomics. BMC Plant Biol 17: 67. <https://doi.org/10.1186/s12870-017-1013-7>
- Zhu G, Liu L, Soreng RJ, Olonova MV (2006) *Poa*. In: Wu Z, Raven PH, Hong D (Eds) Flora of China: Poaceae. Science Press, Beijing.
- Zuloaga FO (1987) Systematics of New World species of *Panicum* (Poaceae: Paniceae). In: Soderstrom TR, Hilu KW, Campbell CS, Barkworth ME (Eds) Grass systematics and evolution. Smithsonian Institution Press, Washington, DC, 287–306.
- Zuloaga FO, Soderstrom TR (1985) Classification of the outlying species of New World *Panicum* (Poaceae: Paniceae). Smithsonian Contributions to Botany 59: 1–63. <https://doi.org/10.5479/si.0081024X.59>

Index to genera

<i>Achnatherum</i>	72	<i>Avena</i>	127
<i>Acrachne</i>	488	<i>Axonopus</i>	207
<i>Acroceras</i>	217	<i>Bambusa</i>	23
<i>Aegilops</i>	92	<i>Bhidea</i>	319
<i>Aeluropus</i>	489	<i>Bothriochloa</i>	320
<i>xAgropogon</i>	112	<i>Bouteloua</i>	490
<i>Agrostis</i>	112	<i>Brachypodium</i>	84
<i>Aira</i>	120	<i>Briza</i>	129
<i>Alloteropsis</i>	219	<i>Bromus</i>	85
<i>Alopecurus</i>	120	<i>Calamagrostis</i>	129
<i>Ampelocalamus</i>	8	<i>Capillipedium</i>	325
<i>Andropogon</i>	300	<i>Castellia</i>	136
<i>Aniselytron</i>	122	<i>Catabrosa</i>	137
<i>Anthoxanthum</i>	123	<i>Catabrosella</i>	138
<i>Apluda</i>	302	<i>Catapodium</i>	139
<i>Apocopis</i>	304	<i>Cenchrus</i>	220
<i>Arctopoa</i>	126	<i>Centotheca</i>	204
<i>Aristida</i>	196	<i>Centropodia</i>	458
<i>Arthraxon</i>	305	<i>Cephalostachyum</i>	29
<i>Arundinella</i>	311	<i>Chandrasekharania</i>	298
<i>Arundo</i>	543	<i>Chimonobambusa</i>	8

<i>Chimonocalamus</i>	10	<i>Eremochloa</i>	365
<i>Chionachne</i>	328	<i>Eremopogon</i>	366
<i>Chloris</i>	493	<i>Eremopyrum</i>	101
<i>Chrysopogon</i>	330	<i>Eriachne</i>	531
<i>Cleistachne</i>	339	<i>Eriochloa</i>	248
<i>Cleistogenes</i>	497	<i>Eriochrysis</i>	366
<i>Coelachne</i>	529	<i>Euclasta</i>	367
<i>Coelachyrum</i>	497	<i>Eulalia</i>	367
<i>Coix</i>	339	<i>Eulaliopsis</i>	373
<i>Cortaderia</i>	454	<i>Festuca</i>	141
<i>Cyathopus</i>	139	<i>Garnotia</i>	374
<i>Cymbopogon</i>	341	<i>Germainia</i>	377
<i>Cynodon</i>	498	<i>Gigantochloa</i>	37
<i>Cynosurus</i>	139	<i>Glyceria</i>	68
<i>Cyrtococcum</i>	231	<i>Glyphochloa</i>	378
<i>Dactylis</i>	140	<i>Gymnopogon</i>	509
<i>Dactyloctenium</i>	500	<i>Halopyrum</i>	510
<i>Danthonidium</i>	544	<i>Helictochloa</i>	151
<i>Dendrocalamus</i>	32	<i>Hemarthria</i>	382
<i>Deschampsia</i>	140	<i>Hemisorghum</i>	383
<i>Desmostachya</i>	502	<i>Heteropogon</i>	384
<i>Dichaetaria</i>	203	<i>Hilaria</i>	510
<i>Dichanthium</i>	349	<i>Hildaea</i>	209
<i>Diectomis</i>	353	<i>Himalayacalamus</i>	13
<i>Digitaria</i>	234	<i>Holcolemma</i>	249
<i>Dignathia</i>	502	<i>Holcus</i>	151
<i>Dimeria</i>	353	<i>Hordeum</i>	102
<i>Dinebra</i>	503	<i>Hubbardia</i>	531
<i>Dinochloa</i>	36	<i>Hyalopoa</i>	152
<i>Diplachne</i>	505	<i>Hygroryza</i>	57
<i>Disakisperma</i>	505	<i>Hymenachne</i>	210
<i>Drepanostachyum</i>	11	<i>Hyparrhenia</i>	386
<i>Duthiea</i>	67	<i>Imperata</i>	388
<i>Echinochloa</i>	245	<i>Indopoa</i>	456
<i>Ehrharta</i>	55	<i>Isachne</i>	532
<i>Eleusine</i>	506	<i>Ischaemum</i>	389
<i>Elionurus</i>	365	<i>Iseilema</i>	403
<i>Elymus</i>	92	<i>Jansenella</i>	299
<i>Elytrophorus</i>	544	<i>Kengyilia</i>	106
<i>Enneapogon</i>	460	<i>Koeleria</i>	152
<i>Enteropogon</i>	507	<i>Koordersiochloa</i>	69
<i>Eragrostiella</i>	508	<i>Kuruna</i>	14
<i>Eragrostis</i>	461	<i>Lagurus</i>	156

<i>Lamarckia</i>	156	<i>Panicum</i>	256
<i>Lasiurus</i>	405	<i>Paracolpodium</i>	161
<i>Leersia</i>	58	<i>Parahyparrhenia</i>	415
<i>Leptaspis</i>	6	<i>Parapholis</i>	161
<i>Leptatherum</i>	405	<i>Paspalum</i>	211
<i>Leptochloa</i>	511	<i>Perotis</i>	517
<i>Lepturus</i>	512	<i>Phacelurus</i>	416
<i>Leucopoa</i>	157	<i>Phaenosperma</i>	66
<i>Leymus</i>	107	<i>Phalaris</i>	162
<i>Limnopoa</i>	541	<i>Phippsia</i>	164
<i>Lolium</i>	158	<i>Phleum</i>	164
<i>Lophatherum</i>	206	<i>Phragmites</i>	545
<i>Lophopogon</i>	406	<i>Phyllostachys</i>	15
<i>Lygeum</i>	66	<i>Piptatherum</i>	74
<i>Manisuris</i>	406	<i>Pleioblastus</i>	17
<i>Megathyrsus</i>	250	<i>Poa</i>	165
<i>Melanocenchris</i>	512	<i>Pogonachne</i>	416
<i>Melica</i>	70	<i>Pogonatherum</i>	417
<i>Melinis</i>	251	<i>Polypogon</i>	186
<i>Melocalamus</i>	41	<i>Polytrias</i>	418
<i>Melocanna</i>	42	<i>Pommereulla</i>	519
<i>Microchloa</i>	514	<i>Pseudanthistiria</i>	419
<i>Microstegium</i>	407	<i>Pseudechinolaena</i>	266
<i>Milium</i>	160	<i>Pseudobambusa</i>	49
<i>Miscanthus</i>	410	<i>Pseudodanthonia</i>	67
<i>Mnesithea</i>	411	<i>Pseudodichanthium</i>	420
<i>Moorochloa</i>	252	<i>Pseudoraphis</i>	267
<i>Muhlenbergia</i>	515	<i>Pseudoroegneria</i>	107
<i>Myriostachya</i>	457	<i>Pseudosasa</i>	17
<i>Neohouzeaua</i>	43	<i>Pseudosorghum</i>	420
<i>Neololeba</i>	44	<i>Pseudostachyum</i>	49
<i>Neomicrocalamus</i>	45	<i>Pseudoxytenanthera</i>	50
<i>Neotrinia</i>	73	<i>Ptilagrostis</i>	76
<i>Neyraudia</i>	459	<i>Puccinellia</i>	187
<i>Ochlandra</i>	45	<i>Rostraria</i>	190
<i>Ophiuros</i>	414	<i>Rottboellia</i>	421
<i>Oplismenus</i>	253	<i>Saccharum</i>	421
<i>Orinus</i>	516	<i>Sacciolepis</i>	269
<i>Oropetium</i>	516	<i>Sarga</i>	426
<i>Orthoraphium</i>	73	<i>Sarocalamus</i>	18
<i>Oryza</i>	60	<i>Schismus</i>	454
<i>Ottochloa</i>	255	<i>Schizachyrium</i>	426
<i>Oxytenanthera</i>	48	<i>Schizostachyum</i>	51

<i>Schoenefeldia</i>		519	<i>Thuarea</i>	448
<i>Sclerochloa</i>	191		<i>Thyrsostachys</i>	53
<i>Secale</i>	108		<i>Thysanolaena</i>	205
<i>Sehima</i>	429		<i>Trachys</i>	284
<i>Semiarundinaria</i>	18		<i>Tragus</i>	520
<i>Setaria</i>	271		<i>Tricholaena</i>	285
<i>Sibirotrisetum</i>	191		<i>Trigonochloa</i>	521
<i>Silentvalleya</i>	457		<i>Trikeria</i>	83
<i>Sinochasea</i>	68		<i>Trilobachne</i>	449
<i>Sorghum</i>	430		<i>Tripidium</i>	449
<i>Sphaerocaryum</i>	542		<i>Triplopogon</i>	451
<i>Spinifex</i>	283		<i>Tripogon</i>	521
<i>Spodiopogon</i>	439		<i>Tripsacum</i>	451
<i>Sporobolus</i>	479		<i>Trisetaria</i>	192
<i>Stapletonia</i>	52		<i>Trisetopsis</i>	193
<i>Stenotaphrum</i>	283		<i>Trisetum</i>	194
<i>Stipa</i>	77		<i>Triticum</i>	108
<i>Stipagrostis</i>	201		<i>Tzvelevochloa</i>	195
<i>Stipellula</i>	82		<i>Urochloa</i>	285
<i>Streptogyna</i>	65		<i>Urochondra</i>	486
<i>Teinostachyum</i>	52		<i>Vossia</i>	452
<i>Tenaxia</i>	455		<i>Yushania</i>	20
<i>Tetrapogon</i>	519		<i>Zea</i>	453
<i>Thamnocalamus</i>	19		<i>Zenkeria</i>	542
<i>Thelepogon</i>	441		<i>Zizania</i>	64
<i>Themeda</i>	441		<i>Zoysia</i>	487